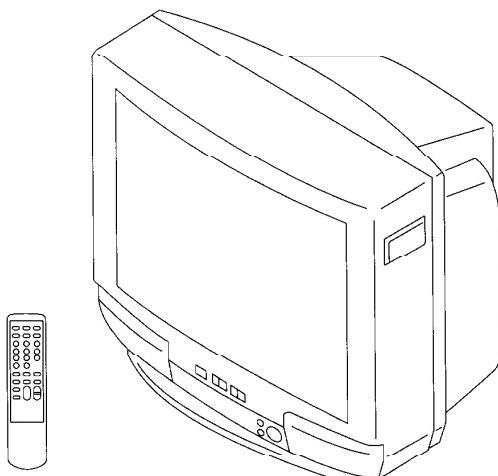


SERVICE MANUAL

BG-1S CHASSIS

<u>MODEL</u>	<u>COMMANDER DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER DEST. CHASSIS NO.</u>
KV-T29SF8	RM-870 Australia	SCC-J99E-A		
KV-T29SF81	RM-870 New Zealand	SCC-K37D-A		
KV-T29SZ8	RM-870 Australia	SCC-J99D-A		



TRINITRON® COLOR TV
SONY®

SPECIFICATIONS

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G	
Color system	PAL, PAL 60, NTSC4.43, NTSC3.58 (AV IN)	
Stereo system	A2 Stereo (German) B/G	KV-T29SZ8 only
Teletext language	English, German, Swedish, Italian, French, Spanish	KV-T29SF81 only
Channel coverage	VHF: 1 to 11/UHF: E21 to E69/CATV: S01 to S03, S1 to S41	New Zealand only
	VHF: 0 to 12, 5A, 6A/UHF: 28 to 69/CATV: S01 to S03, S1 to S41	Australia only
Audio output (speaker)	5W × 2	
Inputs	Antenna: 75 ohms	
	VIDEO IN jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms, high impedance	
	Headphone jack: minijack	
Outputs	MONITOR OUT jacks: phono jacks Video: 1 Vp-p, 75 ohms Audio: 500 mVrms	
	Picture tube	29 in.
	Tube size (cm)	72
Screen size (cm)	68	Measured diagonally
Dimensions (w/h/d, mm)	686 × 617 × 537	Measured diagonally
Mass (kg)	43	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

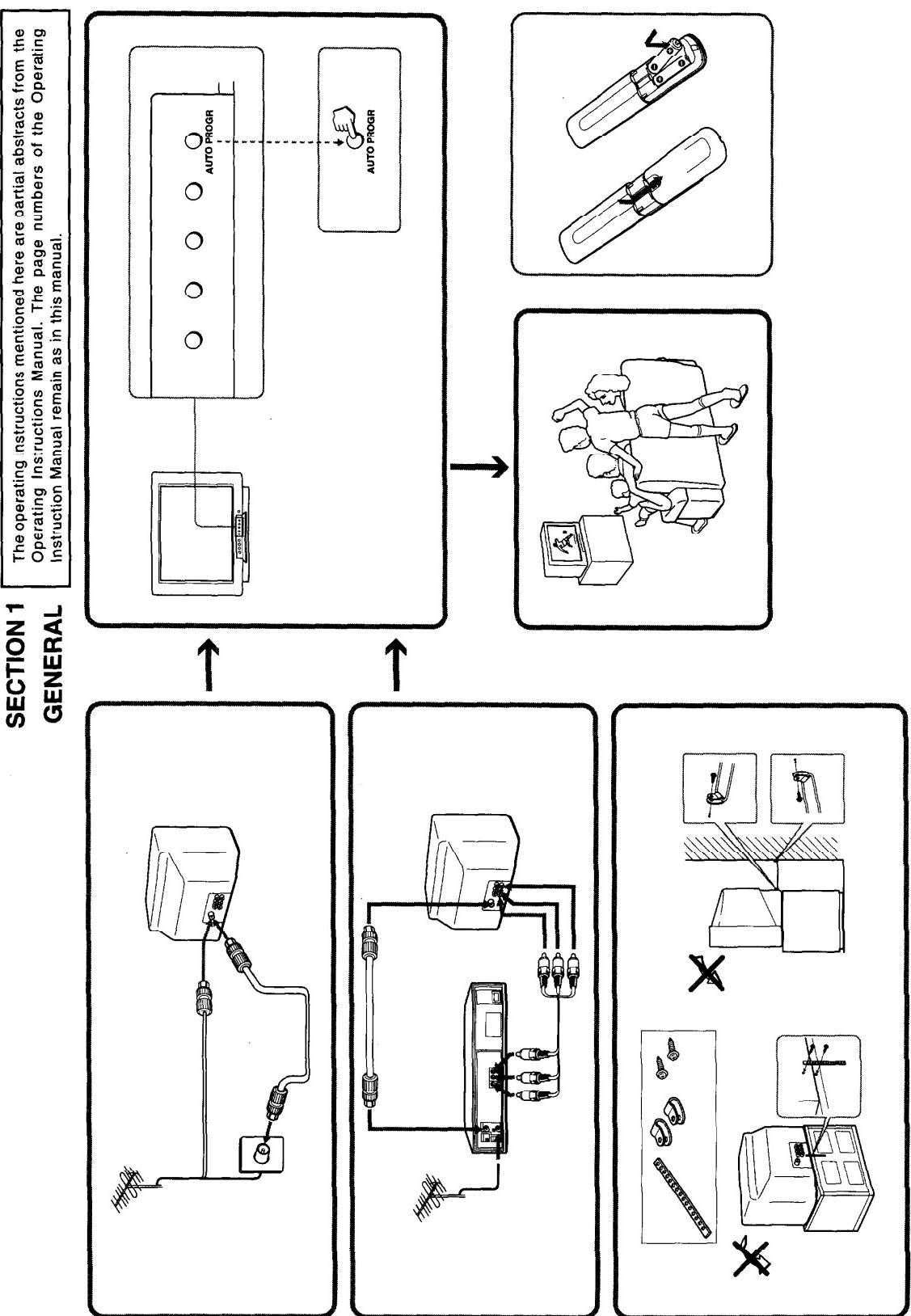
COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

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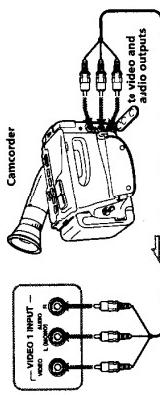
SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instructions Manual. The page numbers of the Operating Instruction Manual remain as in this manual.



Connections

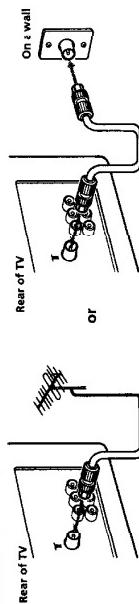
Front of TV



Connecting a VHF antenna or a combination VHF/UHF antenna — 75-ohm coaxial cable (round)

Attach an optional IEC antenna connector to the 75-ohm coaxial cable.

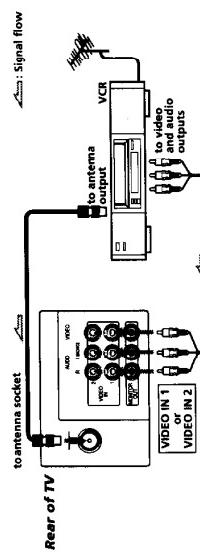
Plug the connector into the **T** (antenna) socket at the rear of the TV.



Connecting optional equipment

You can connect optional audio/video equipment to your TV such as a VCR, multi disc player, camcorder, video game or stereo system.

Connecting video equipment using video input jacks



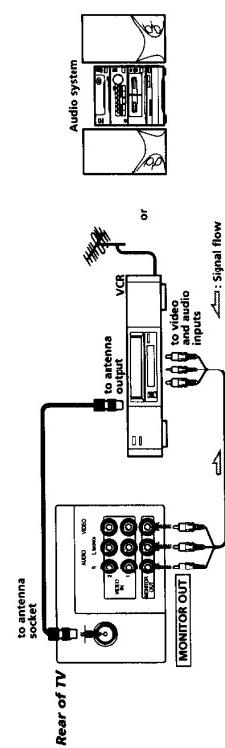
When connecting a monaural VCR

Connect the yellow plug to VIDEO and the black plug to AUDIO L (MONO).

When using the video input jacks

Do not connect video equipment to the video input jacks at the front and the rear (VIDEO IN 1) of your TV simultaneously; otherwise the picture will not be displayed properly on the screen.

Connecting audio/video equipment using MONITOR OUT jacks



When recording through the MONITOR OUT jacks

If you change the channel or video input while recording with a VCR, the channel or video input you are recording also will be changed.

Operations**Presetting channels**

To change the channel for a particular program position or to receive a channel with a weak signal, preset the channel manually.

1 Press MANUAL PROGR.

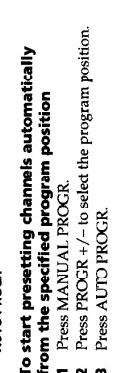
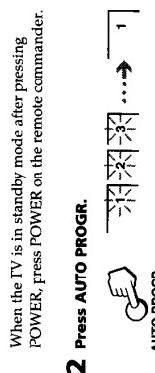
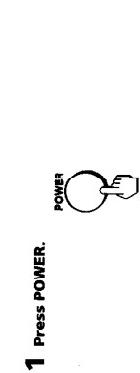
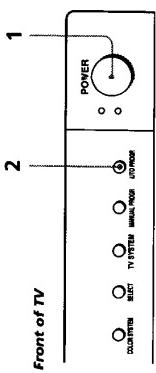
2 Press PROGR +/- until the required program position appears on the screen.

3 Press VOLUME +/- on the TV until the required channel picture appears on the screen.

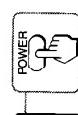
4 Press MANUAL PROGR.

Presetting channels automatically

You can preset up to 80 TV channels in numerical sequence from program position 1.

**Watching the TV**

To switch off the TV temporarily, press POWER on the remote commander.



To switch off the TV completely, press POWER on the TV.
If the power on the TV is turned off in standby mode, the STANDBY indicator may remain alight for a while.

**Switching off the TV**

To switch off the TV temporarily, press POWER on the remote commander.



To switch off the TV completely, press POWER on the TV.
If the power on the TV is turned off in standby mode, the STANDBY indicator may remain alight for a while.

**Disabling program positions**

By disabling unused or unwanted program positions, you can skip those positions when you press PROGR +/-.

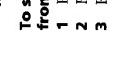
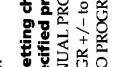
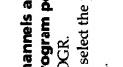
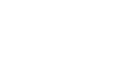
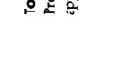
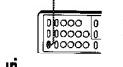
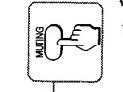
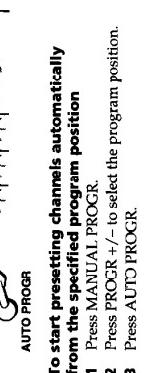
1 Press PROGR +/- until the unused or unwanted program position appears on the screen.

2 Press MANUAL PROGR.

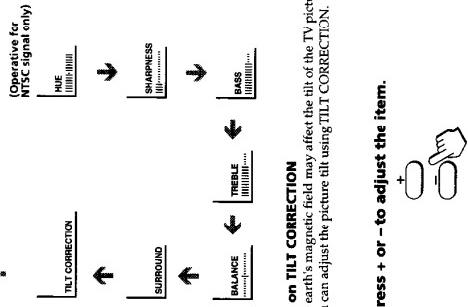
3 Press PIC MODE on the remote commander.

4 Press MANUAL PROGR.

To cancel the skip setting
Preset the channel manually, or automatically again.



Each time you press SELECT, the screen changes as follows:

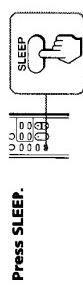


Adjusting the picture and sound

- The last TV program position or video mode just before the TV turns into standby mode will appear when the TV is turned on using the Wake Up timer.
- If no buttons or controls are pressed for more than two hours after the TV's turned on using the Wake Up Timer, the TV automatically turns into standby mode. When you want to continue watching the TV, press any button or control on the TV or remote commander.

Setting the Sleep Timer

You can set the TV to turn off automatically after the period of time you want.

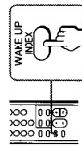


Setting the Wake Up Timer

You can set the TV to turn on automatically after the period of time you want.

1 Press WAKE UP/INDEX repeatedly to set the timer.

The on-screen display appears and the WAKE UP indicator lights up.



To cancel the Sleep Timer, press SLEEP repeatedly until "SLEEP TIMER: OFF" appears, or turn the TV off.

Changing the on-screen display language

If you prefer Chinese to English, you can change the on-screen display language. You can use buttons on the remote commander or the TV.



- Press SELECT until the screen appears as follows:
- If you want a particular TV program or video input to be displayed using the Wake Up Timer, select the TV program or video mode.
- Press POWER on the remote commander or set the Sleep Timer to turn off the TV in standby mode.

To cancel the Wake Up Timer, press WAKE UP/INDEX repeatedly until "WAKE UP TIMER: OFF" appears, or turn off the main power of the TV.

Notes

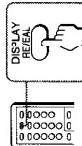
- The Wake Up Timer starts immediately after the on-screen display disappears.

Operations

Displaying on-screen information

Press DISPLAY/REVEAL.

The program position, local system, and TV settings are displayed on the screen.



Adjusting the picture and sound

1 Press PIC MODE until the mode you want appears.



Each time you press PIC MODE, the screen changes as follows:



2 Press + or - to adjust the item.

Note on TILT CORRECTION

- The earth's magnetic field may affect the tilt of the TV picture. You can adjust the picture tilt using TILT CORRECTION.

3 To adjust other items, repeat steps 1 and 2.

Note

- You can also use VOLUME + / - on the TV to adjust the picture and sound setting.

If the color of the picture is abnormal

Press COLOR SYSTEM or adjust the color setting until the color becomes normal.

Front or TV

Note

- Normally, set COLOR SYSTEM to AUTO.



Operations

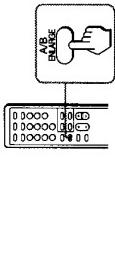
You can also use VOLUME + / - on the TV to select the on-screen display language.

Selecting a stereo or bilingual program

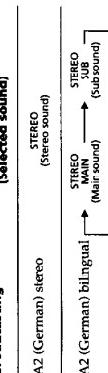
KV-T29SZ8 only

Press A/B/ENLARGE repeatedly until you receive the sound you want.

The on-screen display changes corresponding to the selected sound and the WAKE UP/STEREO indicator also lights up.



When receiving a A2 (German) program



Receiving area for A2 (German) program

System	Receiving area
A2 (German)	Australia, Malaysia, Thailand, etc.

Note
• If the signal is very weak, the sound becomes monaural automatically.

- If the signal is very weak, the sound becomes monaural automatically.

Each time you press TEXT, the screen changes as follows:



- 1 Key in the page number of the Teletext that you want to refer, then press TEXT CLR.
- 2 When the page number is displayed on the screen, press TEXT to switch the Teletext on.

Checking the contents of a Teletext service (INDEX)
Press WAKE UP/INDEX to display an overview of the Teletext contents and page numbers.

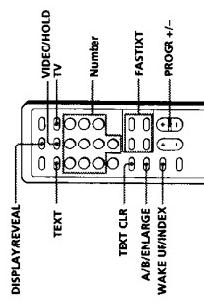
Viewing Teletext

Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT page is broadcasted, a color-coded menu appears at the bottom of the screen. The colors of the menu correspond to the RED, GREEN, YELLOW, and CYAN buttons on the remote commander. Press the color button which corresponds to the color-coded menu. The page is displayed after a few seconds.

KV-T29SF81 only

For the KV-T29SF8 and KV-T29SZ8 models, you need the Teletext adaptor OPK-T200C (not supplied) to view the Teletext broadcast. You can request your nearest authorized service center or dealer to install the Teletext adaptor into your TV.



Displaying Teletext

- 1 Select a TV channel which carries the Teletext broadcast you want to watch.
- 2 Press TEXT to display the Teletext.

A Teletext page is displayed (normally the index page). If there is no Teletext broadcast, '00' is displayed at the top left corner of the screen.

To cancel the Teletext display, press TV.

Superimposing a Teletext page on the TV picture

Press TEXT.

Each time you press TEXT, the screen changes as follows:



- 1 Key in the page number of the Teletext that you want to refer, then press TEXT CLR.
- 2 When the page number is displayed on the screen, press TEXT to switch the Teletext on.

Additional Information

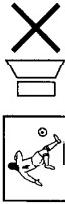
Troubleshooting



- Press POWER.
- Check the antenna connection.
- Check the VCR connections.
- Check the power cord connection.
- Check the standby mode.

If you have any problems, read this manual again and check the countermeasure for each of the symptoms listed below.
If the problem persists, contact your nearest authorized service center or dealer.

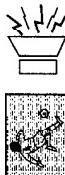
**Snowy picture
Noisy sound**



- Press VOLUME +.
- Press MUTING.
- Press A/B/ENLARGE (KV-T29Z8 only).

→ Check the antenna connection on the TV and on the wall.

Dotted lines or stripes



- This may be caused by local interference (e.g. cars, neon signs and hair dryers). Adjust the antenna for minimum interference.

Double images or "ghosts"



- This may be caused by reflections from nearby mountains or buildings. A highly directional antenna may improve the picture.

Notes

- When you switch on the TV, you may hear the "boon" sound that is caused by the deenergization of the TV. This does not indicate a malfunction.
- The picture color may become abnormal if you change the direction of your TV. To obtain the normal picture color, press POWER on the TV to switch off the TV for five minutes and then switch it on again.

Note on the TV SYSTEM button

- The supplied remote commander is used on several models of the TV. If you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. TEXT.

Note on the remote commander

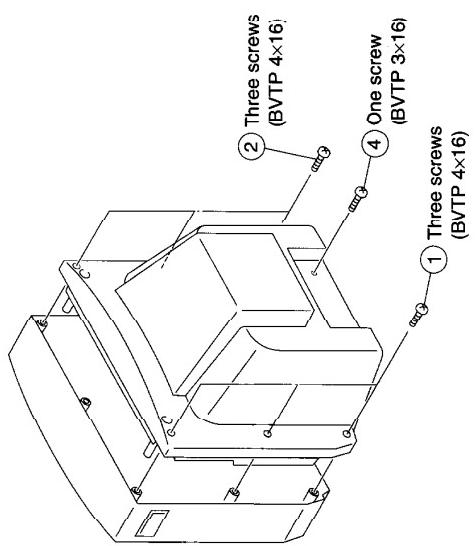
- The supplied remote commander is used on several models of the TV. If you do not find instructions for some controls that are on the remote commander, that means your TV does not employ the features of those controls, e.g. TEXT.

WARNING

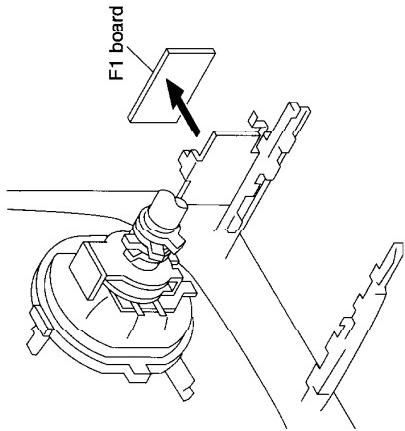
- Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.
- The TV SYSTEM button is not used on your TV.

SECTION 2
DISASSEMBLY

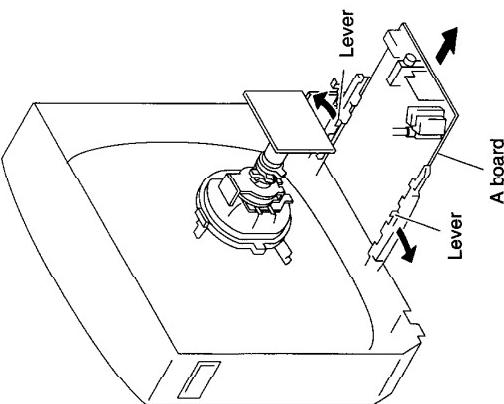
2-1. REAR COVER REMOVAL



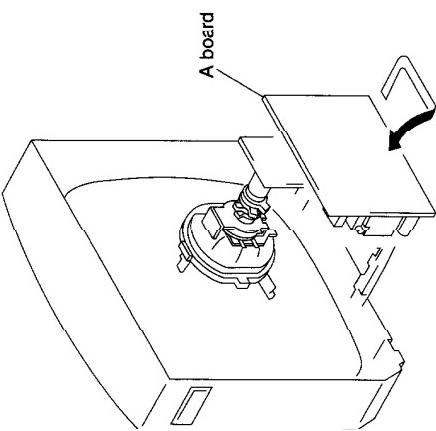
2-3. F1 BOARD REMOVAL



2-2. A BOARD REMOVAL



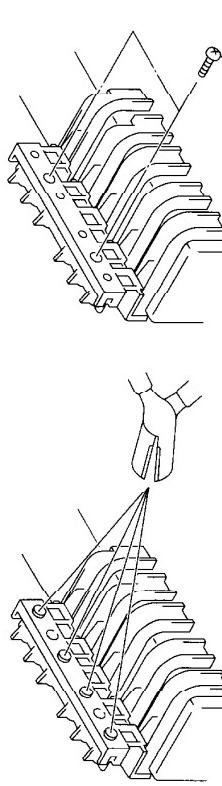
2-4. SERVICE POSITION



2-6. DEMAGNETIZATION COIL REMOVAL

For replacement of the Multi Button, Power Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

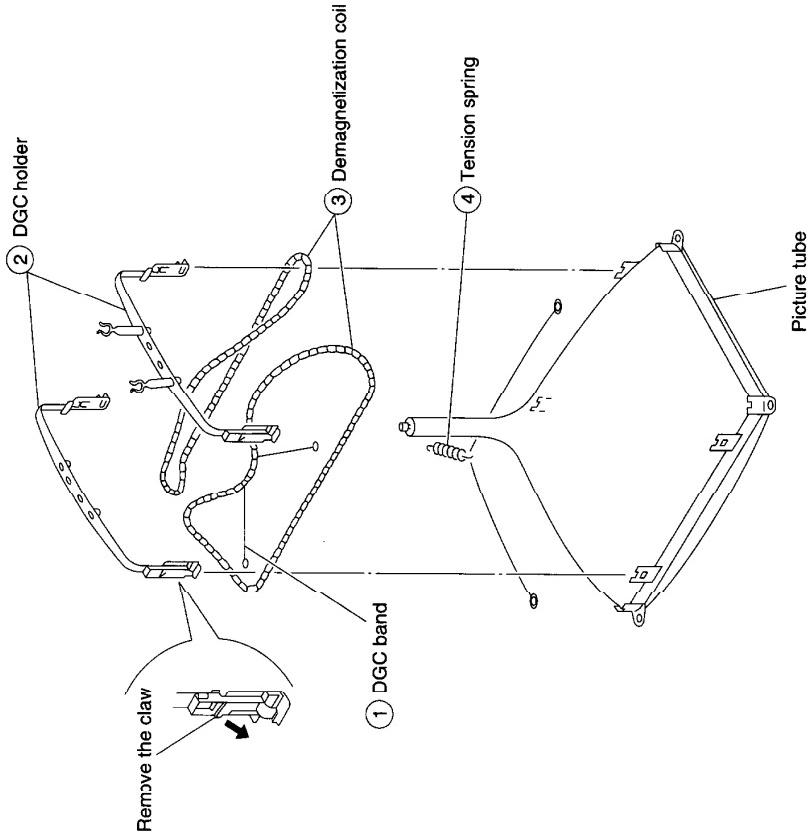
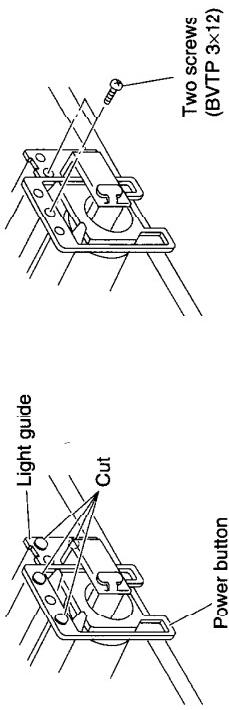
2-5-1. REPLACEMENT OF MULTI BUTTON



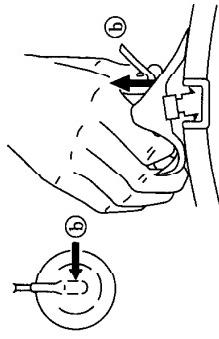
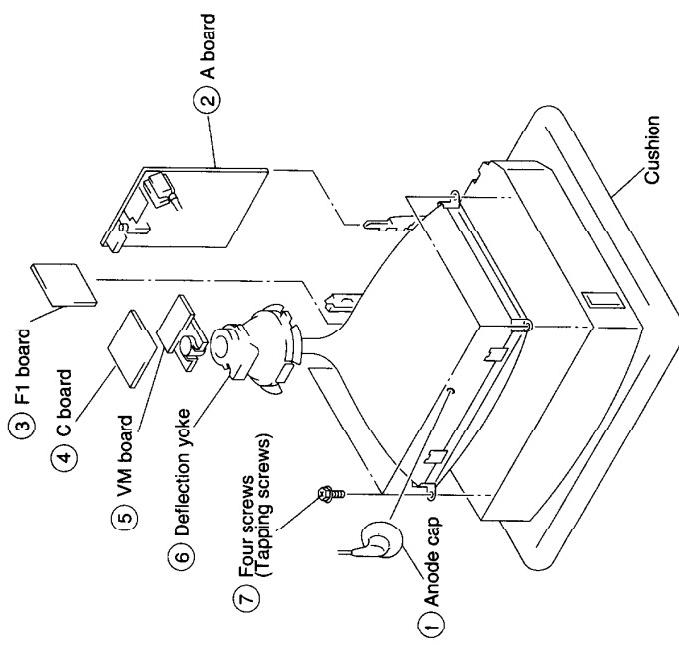
2-5. REPLACEMENT OF PARTS

For replacement of the Multi Button, Power Button and Light Guide, cut the welded portions from them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

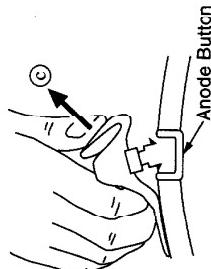
2-5-2. REPLACEMENT OF LIGHT GUIDE, POWER BUTTON



2-7. PICTURE TUBE REMOVAL



- ② Using a thumb press down then pull up the rubber cap firmly in the direction indicated by the arrow ②.



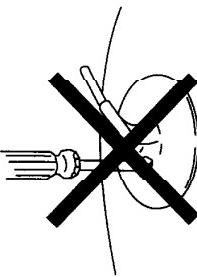
- ① When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ③.

• REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

• REMOVING PROCEDURES

- HOW TO HANDLE AN ANODE-CAP
 - ① Do not damage the surface of anode-caps with sharp shaped objects.
 - ② Do not press the rubber too hard so as not to damage the inside of anode-caps.
 - A metal fitting called the shatter-hook terminal is built into the rubber.
 - ③ Do not turn the foot of rubber over too hard.
 - ④ The shatter-hook terminal will stick out or damage the rubber.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ③.

SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switch should be set as follows unless otherwise noted:

PICTURE control normal
BRIGHTNESS control normal

Perform the adjustments in order as follows :

- Beam Landing
- Convergence
- Focus
- White Balance

Note : Test Equipment Required.

- Color-bar/Pattern Generator
- Degausser
- Oscilloscope

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

- Input a white signal with the pattern generator.
Contrast } normal
Brightness }
- Position neck assy as shown in Figure 3-1.
- Set the pattern generator raster signal to green.
- Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
(See Figures 3-1 through 3-3.)
- Move the deflection yoke forward and adjust so that entire screen is green. (See Figure 3-1.)
- Switch the raster signal to blue, then to red and verify the condition.
- When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
- If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Figure 3-4.)

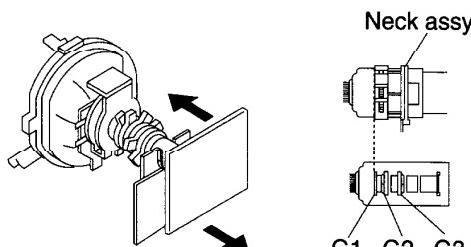


Fig. 3-1

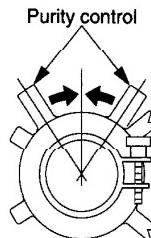


Fig. 3-2

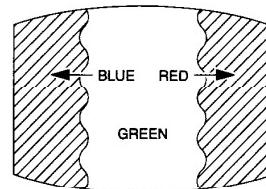


Fig. 3-3

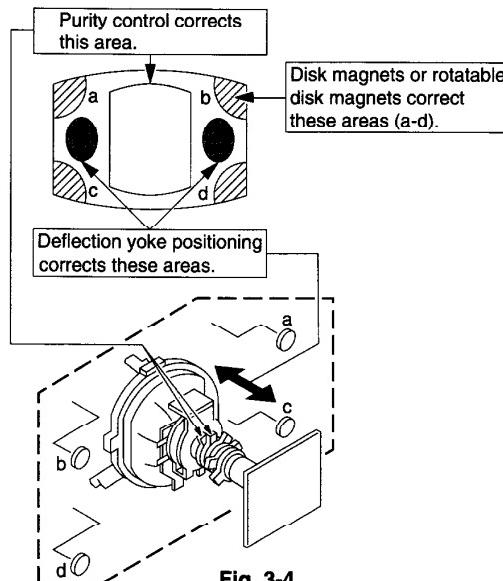


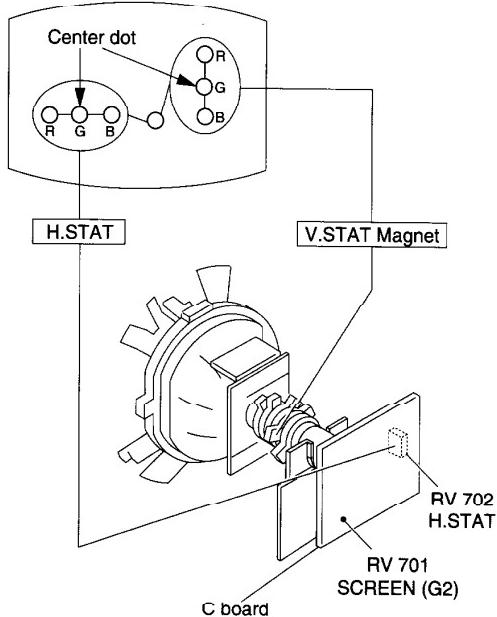
Fig. 3-4

3-2. CONVERGENCE

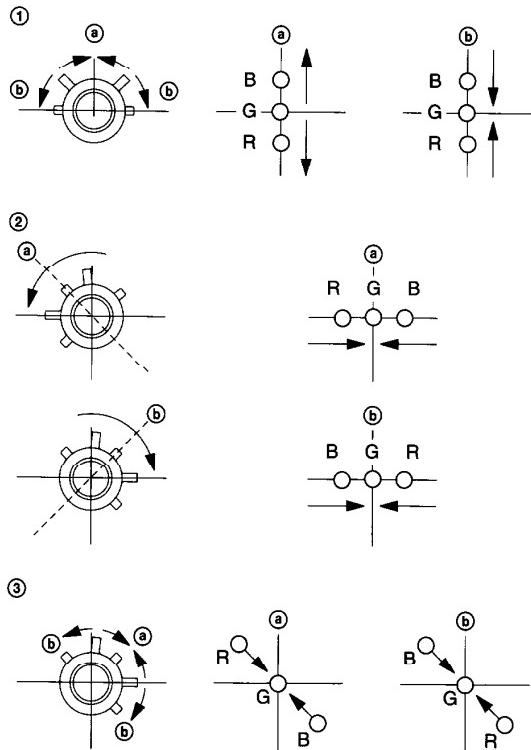
Preparation :

- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and Vertical Static Convergence



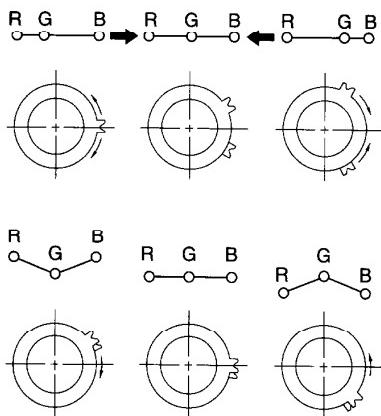
- If the V.STAT magnet is moved in the direction of the ④ and ⑤ arrows, the red, green, and blue points move as shown below.



1. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving horizontally), adjust the H.STAT VR magnet so that the red, green, and blue points are on top of each other at the center of the screen.

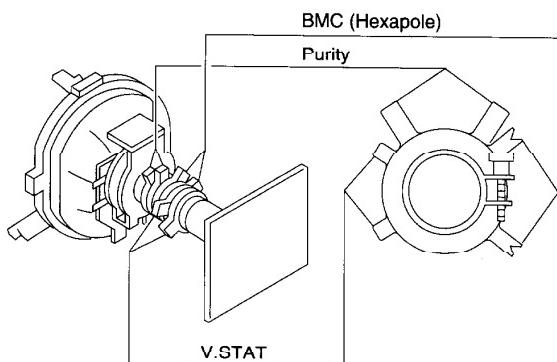
- Operation of BMC (Hexapole) Magnet

If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.

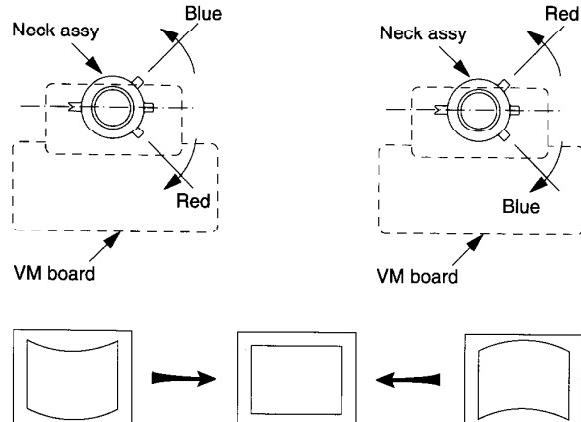


- Then use the H.STAT VR to adjust the red, green, and blue dots so that they coincide at the center of screen.

The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.



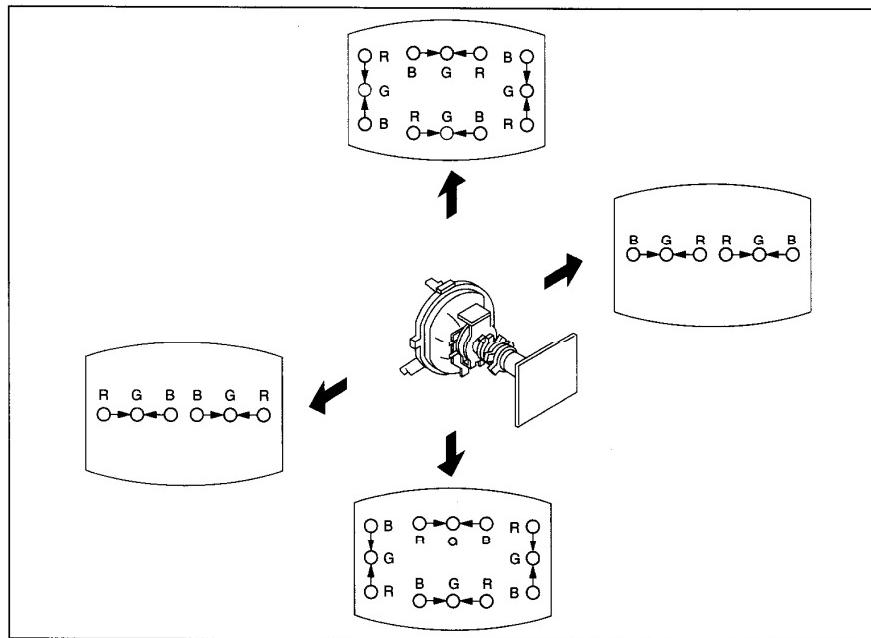
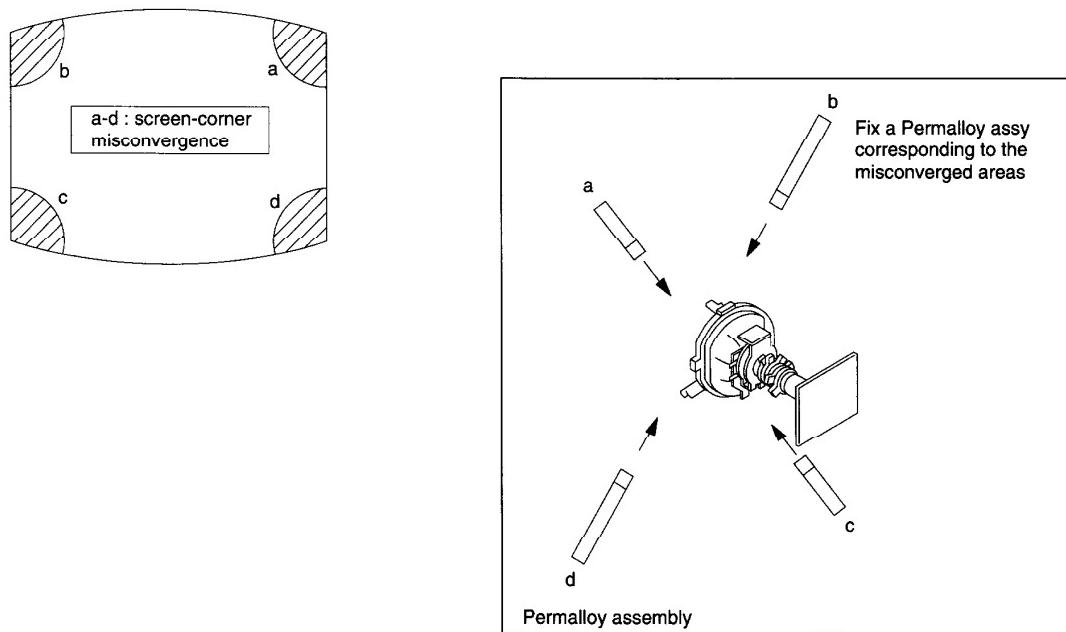
- Y separation axis correction magnet adjustment.
1. Receive the cross-hatch signal and adjust [PICTURE] to "MIN" and [BRIGHTNESS] to "STANDARD".
 2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.



Note: 1) The Red and Blue magnets should be equally far from the horizontal center line.
2) Do not separate the Red and Blue magnets too far.
(Less than 8 mm)

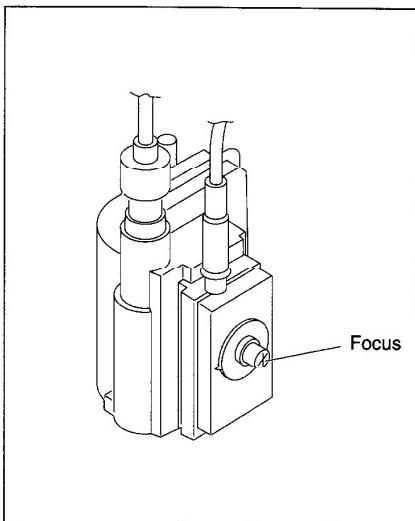
(2) Dynamic Convergence Adjustment**Preparation :**

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
1. Slightly loosen the deflection yoke screws.
 2. Remove the deflection yoke spacer.
 3. Move the deflection yoke as shown in the figure below and optimize the convergence.
 4. Tighten the deflection yoke screws.
 5. Install the deflection yoke spacer.

**(3) Screen-corner Convergence**

3-3. FOCUS ADJUSTMENT

Adjust FOCUS control on the flyback transformer for the best focus.



Note: Screen VR is not use.

a. AN ITEM OF ADJUSTMENT

Item number	Adjustment item	Initial DATA	Note
09	RDR	25	WHITE POINT R
0A	GDR	20	WHITE POINT G
0B	BDR	20	WHITE POINT B

b. METHOD OF CANCELLATION FROM SERVICE MODE

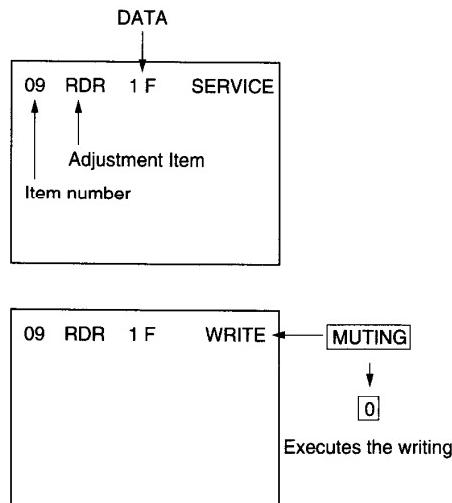
Set the standby condition (Press [POWER] button on the commander) and then press [POWER] button again, hereupon it becomes TV mode.

c. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press [1] (UP) and [4] (DOWN) to select an item of adjustments.
- 3) Press [MUTING] button and it will indicate WRITE on screen.
- 4) Press [0] button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again, confirm they were adjusted.

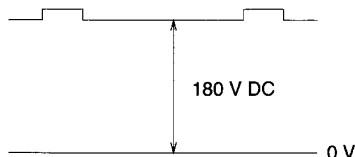


3-4. G2 (SCREEN) AND WHITE BALANCE

ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT (RV701)

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G, and B of the C board cathode to the oscilloscope.
- 4) Adjust G2 (RV701) volume to the value below.



2. WHITE BALANCE ADJUSTMENTS

- 1) Set the Service Mode.
- 2) Input an entire white signal.
- 3) Set the PICTURE to maximum.
- 4) Select RDR(09) with [1] and [4], and then set the level to 25 with [3] and [6].
- 5) Select GDR(0A) and BDR(0B) with [1] and [4] and adjust the level with [3] and [6] for the best white balance.
- 6) Write into the memory by pressing [MUTING] → then [0].

SECTION 4

SELF DIAGNOSIS FUNCTION

If no acknowledgement is returned from a device which is turned "ON", the device has a problem.
In this case, one of the LED's responding to the problem device will flicker a defined number of times.

Flickering is operated by lighting the LED's for 60ss each time.

The flickering frequency responding to each failed device is shown below.

Device	NONVOLATILE MEMORY	—	Y/C JUNGLE	—	—	AUDIO PROCESSOR (TDA8424)
Flickering Frequency	1	—	3	—	—	6

All the devices are checked one after another from the left of the table.

If an error is found, the responding LED will start flickering.

So, if more than 1 device have failed, only the one on the left side will flicker.

SECTION 5

CIRCUIT ADJUSTMENTS

5-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-870 that comes with this unit.

Entering service mode

With the unit on standby



DISPLAY



5

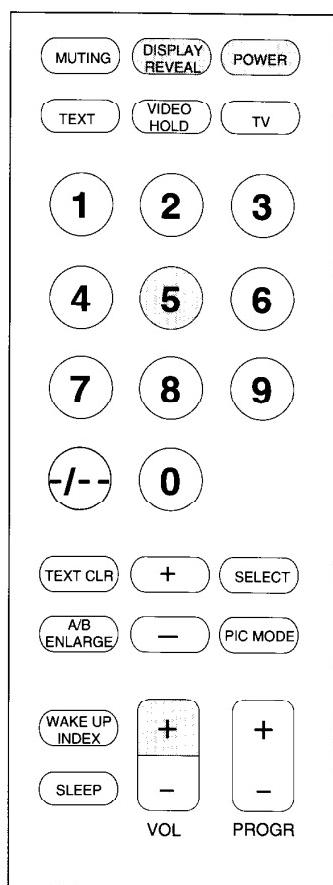


VOL (+)



POWER

The operation sequence puts the unit into service mode.

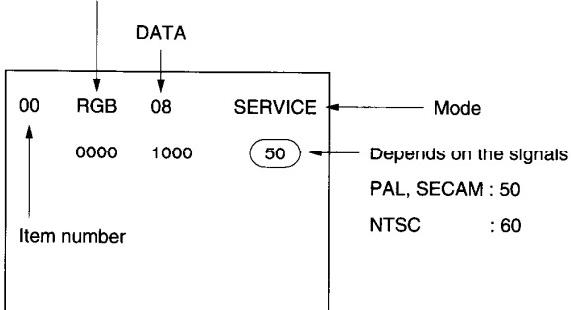


- | | |
|-----------------|-------------------------------------|
| [1], [4] | Raise/lower the service item number |
| [3], [6] | Raise/lower the data |
| MUTING | Writes |
| [0] | Executes the writing |

- | | |
|-----------------|---|
| [7], [0] | The data all becomes the values in memory |
| [8], [0] | User control all goes to the standard state |
| [5], [0] | Service data initialization (Be sure not to use usually.) |
| [2], [0] | Write 50Hz adjustment data to 60Hz, or viceversa. |

The screen display is ·

Adjustment item



- | | |
|-----------------|----------------------------------|
| [1], [4] | Select the adjustment item.
↓ |
| [3], [6] | Raise/lower the data.
↓ |
| MUTING | Writes
↓ |
| [0] | Executes the writing. |

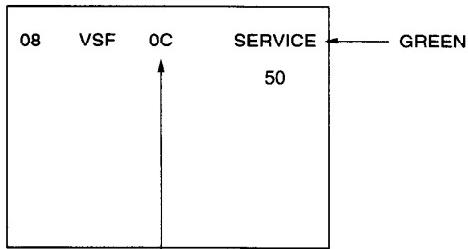
RM-870

5-2. ADJUSTMENT METHOD

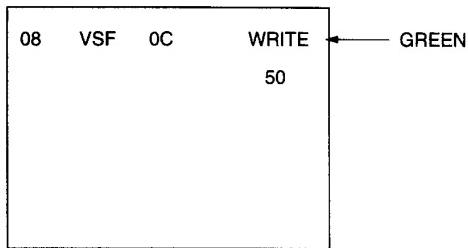
Item Number 08

This explanation uses V-SHIFT as an example.

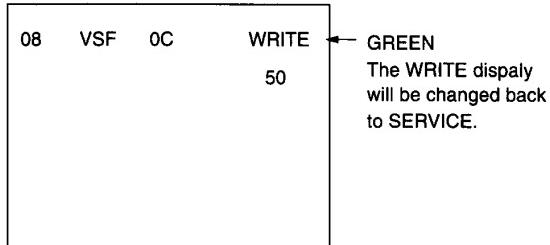
1. Select 08 V-SHIFT with the **[1]** and **[4]** buttons.
2. Raise/lower the data with the **[3]** and **[6]** buttons.
3. Select the optimum state. (The standard is 0F for PAL reception.)
4. Write with the **MUTING** button.
5. Execute the writing with the **[0]** button. (The WRITE display returns to green SERVICE.)



Adjust with the **[3]** and **[6]** buttons.



Written with the **MUTING**.



Write executed with **[0]**.

Use the same method for Items Number 00-49. Use **[1]** and **[4]** to select the adjustment item, use **[3]** and **[6]** to adjust, write with **MUTING**, then execute the write with **[0]**.

Adjustment Item Table

Item number	Adjustment item	Data range	Initial data	Standard data		Note	Device
00	HSF	00-3F	24	50: 24	60: 24	H SHIFT	TDA8375
01	HSZ	00-3F	23	50: 1F	60: 1F	H SIZE	TDA8375
02	PAP	00-3F	21	50: 2E	60: 2D	PIN AMPLITUDE	TDA8375
03	CNP	00-3F	29	50: 23	60: 26	CORNER PIN	TDA8375
04	TLT	00-3F	20	50: 21	60: 25	TIILT	TDA8375
05	VSL	00-3F	20	50: 1D	60: 1D	V SLOPE	TDA8375
06	VAP	00-3F	1D	50: 38	60: 34	V AMPLITUDE	TDA8375
07	SCR	00-3F	20	50: 20	60: 20	S CORRECTION	TDA8375
08	VSF	00-3F	20	50: 2A	60: 2B	V SHIFT	TDA8375
09	RDR	00-3F	25	26		WHITE POINT R	TDA8375
0A	GDR	00-3F	20			WHITE POINT G	TDA8375
0B	BDR	00-3F	20			WHITE POINT B	TDA8375
0C	FO	00-02	00	TV: 00	VIDEO: 03	TEXT: 01	PHI-1 TIME CONSTANT
0D	AGC	00-3F	30	TV: 2A	VIDEO: 2A	TEXT: 2A	AGC TAKE OVER
0E	VSW	00-01	00	TV: 00	VIDEO: 01	TEXT: 00	VIDEO MUTE
0F	FOR	00-03	03	03		FORCED FIELD FREQ.	TDA8375
10	DL	00-01	00			INTERLACE	TDA8375
11	POC	00-01	00			SYNCHRO MODE FIX	TDA8375
12	VID	00-01	00			VIDEO IDENT MODE	TDA8375
13	HCO	00-01	00			EHT TRACKING MODE	TDA8375
14	EVG	00-01	00			ENABLE V GUARD	TDA8375
15	SBL	00-01	00			SERVICE BLANKING	TDA8375
16	PRD	00-01	00			OVER-VOLTAGE INPUT	TDA8375
17	COR	00-01	00			NOISE CORING PEAK	TDA8375
18	PMX	00-3F	27	2D		PICTURE MAX DATA	TDA8375
19	PMI	00-3F	05	0		PICTURE MIN DATA	TDA8375
1A	SBR	00-7F	4B	50		SUB-BRIGHTNESS	TDA8375
1B	SHU	00-0F	07	06		SUB-HUE	TDA8375
1C	SSH	00-03	01	TV: 00	VIDEO: 01	SUB-SHARPNESS	TDA8375
1D	SC1	00-3F	1F	50: 22	60: 29	SUB-COLOR LOWER	TDA8375
1E	SC2	00-3F	0B	50: 0C	60: 0F	SUB-COLOR HIGHER	TDA8375
1F	AIP	00-7F	3F			ADJUSTMENT IF PLL	TDA8375
20	VZM	00-3F	19			VERTICAL ZOOM	TDA8375
21	FAW	00-FF	08			NICAM FAW THRESH	MSP3410
22	CTM	00-FF	08			NICAM ERROR BIT (MONO)	MSP3410
23	CNT	00-FF	50			NICAM ERROR BIT (NICAM)	MSP3410
24	WCD	00-FF	0A			W. G. CHANGE DATA	MSP3410
25	WST	00-FF	15			W. G. STEREO CUT POINT	MSP3410
26	WTM	00-FF	50			W. G. TIMER CHANGE	MSP3410
27	WBT	00-FF	EA			W. G. BILINGUAL	MSP3410
28	ACG	00-01	01			AGC AUTO/CONST.	MSP3410
29	CDB	00-3F	28			AGC GAIN CONST.	MSP3410
2A	FGP	00-7F	24			FM (BG, I, DK) PRESCALE	MSP3410
2B	FMP	00-7F	40			FM (M) PRESCALE	MSP3410
2C	WGP	00-7F	3C			W. G. PRESCALE	MSP3410
2D	NIP	00-7F	7F			NICAM PLESCALE	MSP3410
2E	CRM	00-01	00			CARRIOR MUTE	MSP3410
2F	CMI	00-03	00			CARRIOR MUTE LEVEL	MSP3410
30	ACO	00-01	01			AUDIO CLOCK OUT	MSP3410
31	WAC	00-0F	01			W. G. AGREEMENT COUNT	MSP3410
32	DLY	00-FF	30			STEREO SEARCH DELAY	MSP3410
33	DLG	00-FF	10			W/G SEARCH DELAY	MSP3410
34	TXP	00-0F	09	0D		TEXT PICTURE CONT.	SAA5281
35	MXP	00-0F	0D	0F		TEXT MIX MODE PIC.	SAA5281

Adjustment Item Table

Item number	Adjustment item	Data range	Initial data	Standard data	Note	Device
36	BKP	00~3F	00		BLK OFF PICTURE	CXP85200
37	HBL	00~3F	25		H BLK LEFT WIDTH	CXP85200
38	HBR	00~3F	20		H BLK RIGHT WIDTH	CXP85200
39	VBH	00~7F	00		V BLK HIGHT WIDTH	CXP85200
3A	VBL	00~FF	FF		V BLK LOW WIDTH	CXP85200
3B	ODL	00~FF	10		POWER ON DELAY	CXP85200
3C	OFR	00~0F	00		REMO. CON. RGB OUT	CXP85200
3D	OFM	00~0F	00		MAIN POWER RGB OUT	CXP85200
3E	OSH	00~3F	0A		OSD POSITION H	CXP85200
3F	DKS	00~01	00		D/K STEREO SEARCH	CXP85200
40	MUT	00~01	00		NO SYNC. MUTE	CXP85200
41	DWZ	00~01	00		DISEBLE WIDEZOOM	CXP85200
42	ABL	00~01	00		BRIGHT ABL	CXP85200
43	DTV	00~01	00		DISABLE TV SYS KEY	CXP85200
44	SCM	00~01	00		SECAM TRAP ACTIVE	CXP85200
45	ROC	00~0F	07		ROTATION CENTER	CXP85200
46	ROS	00~07	03		ROTATION STEP WID	CXP85200
47	DVM	00~01	00		DISABLE VM MODE	CXP85200
48	OP0	00~FF	40	70	OPTION 0	CXP85200
49	OP1	00~FF	07	4D	OPTION 1	CXP85200

NOTE

- Standard Data: Those are the standard data values written on the microprocessor. Therefore, the data values of the modes are stored respectively in the memory.
In case of a device replacement, adjustment by rewriting the data value is necessary for some items.
- 50 50 Hz data
- 60 60 Hz data
- Standard data listed on the adjustment item table are reference values, therefore it is different for every model.

ITEM INFORMATION

• 10. DL: TV/MIX Mode 0=Interlace 1=interlace, TEXT Mode 0=interlace 1=Interlace

• 42. ABL: Bright ABL ON/OFF ON=1 OFF=0

• 48. OP0 • 49. OP1

Input data are different according to models.

AV INPUT : 00 → NO MODEL, 01 → MONO, CXA1315, 10/11 → STEREO, TDA8424

TV System : 00 → Multi model, 01 → B/G, 10 → D/K.I, 11 → B/G D/K

NTSC, SECAM, Chin

Shrp : Dynamic Mode @ 1 → Sharpness 50%, 0 → Sharpness 70%.

VM Operation : 0 → OFF, 1 → ON

No. 48 OP0 * Input data are different according to models

Item	-	AV Input		Shrp	-	-	-	Saudi
KV-T29SF8	0	0	1	1	0	0	0	0
KV-T29SF81	0	0	1	1	0	0	0	0
KV-T29SZ8	0	1	1	1	0	0	0	0

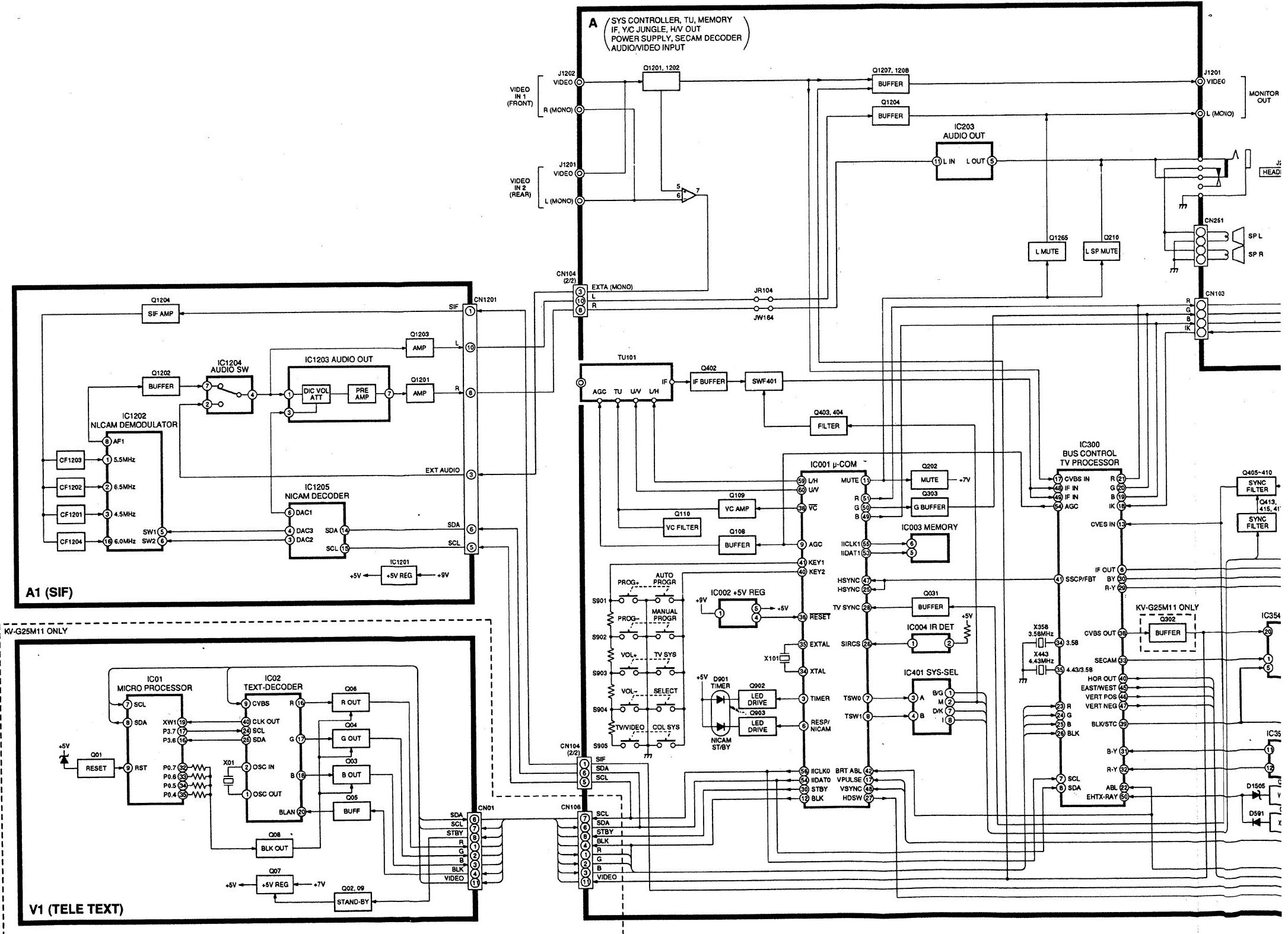
No. 49 OP1

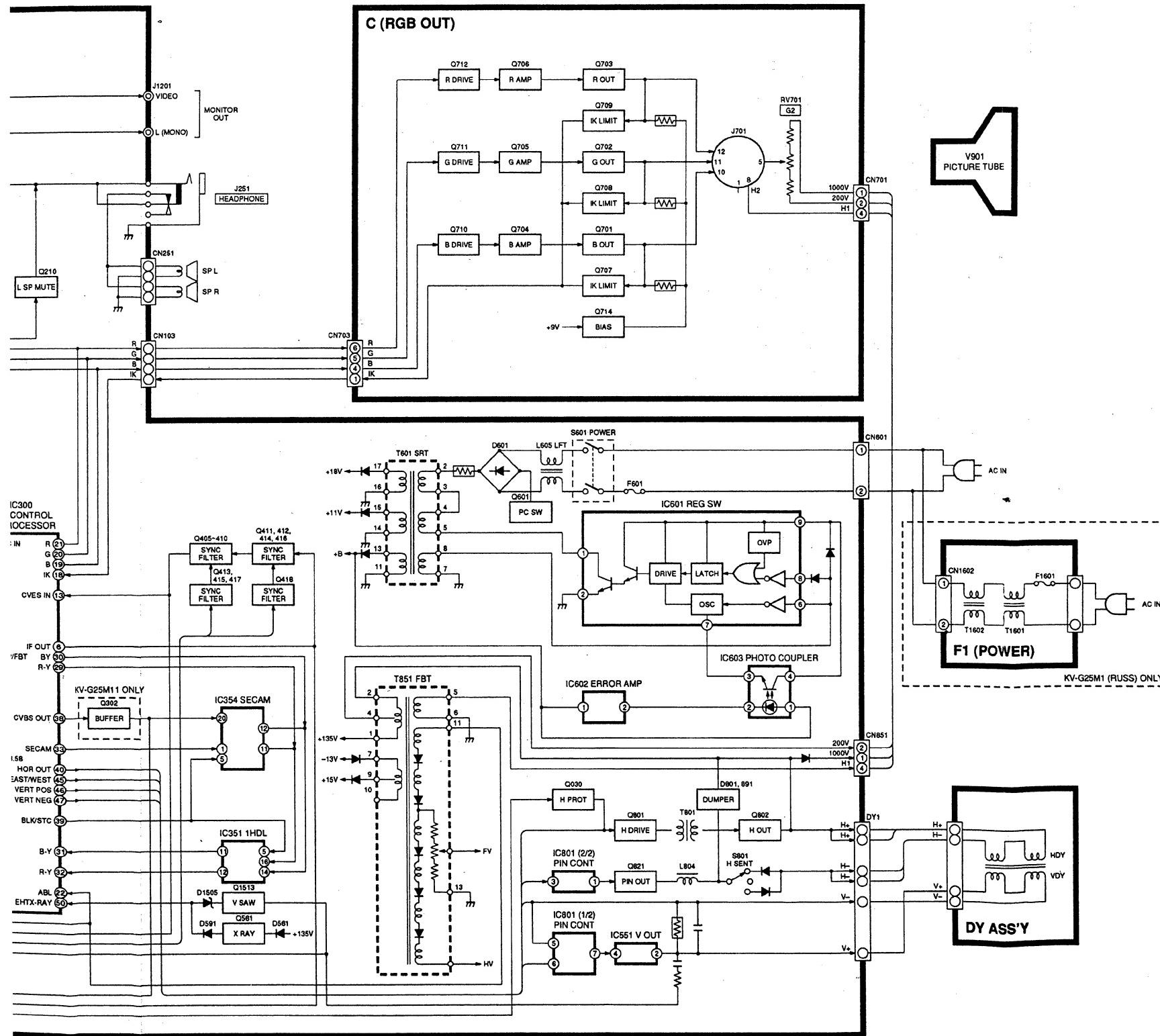
Item	-	VM	-	TV System		NTSC	SECAM	Chin
KV-T29SF8	0	1	0	0	1	1	0	1
KV-T29SF81	0	1	0	0	1	1	0	1
KV-T29SZ8	0	1	0	0	1	1	0	1

SECTION 5

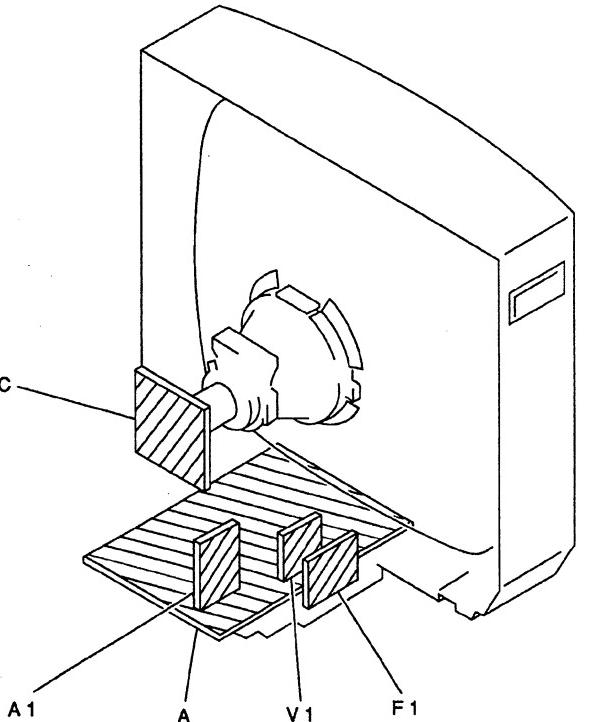
DIAGRAMS

5-1. BLOCK DIAGRAMS





5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF : μF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
 $k\Omega = 100\Omega$, $M\Omega = 1000k\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.
- Pitch: 5 mm
- Rating electrical power 1/4W (CHIP: 1/10W)
- : nonflammable resistor.
- : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
no mark : PAL
() : SECAM
() : NTSC 4.43
- Readings are taken with a 10 $M\Omega$ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- * : Can not be measured.
- Circled numbers are waveform reference.
- : B + bus.
- : B - bus.
- : signal path.

Note: The component identified by shading and mark are critical for safety. Replace only with part number specified.

PRINTED WIRING BOARD

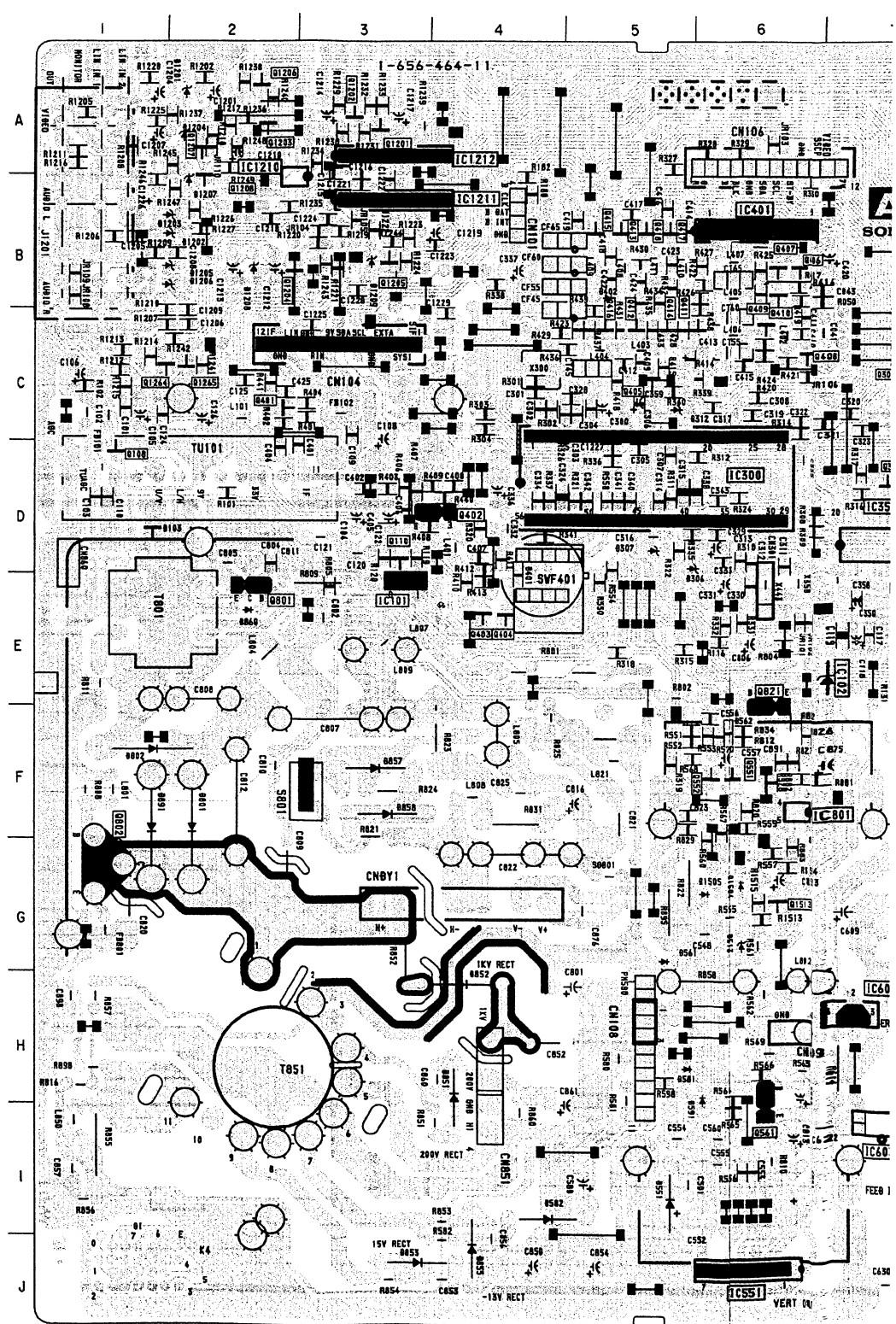
A [SYS CONTROLLER, TU, MEMORY, IF, Y/C JUNGLE
H/V OUT, POWER SUPPLY, SECAM DECODER, AUDIO/VIDEO INPUT]

- A Board -

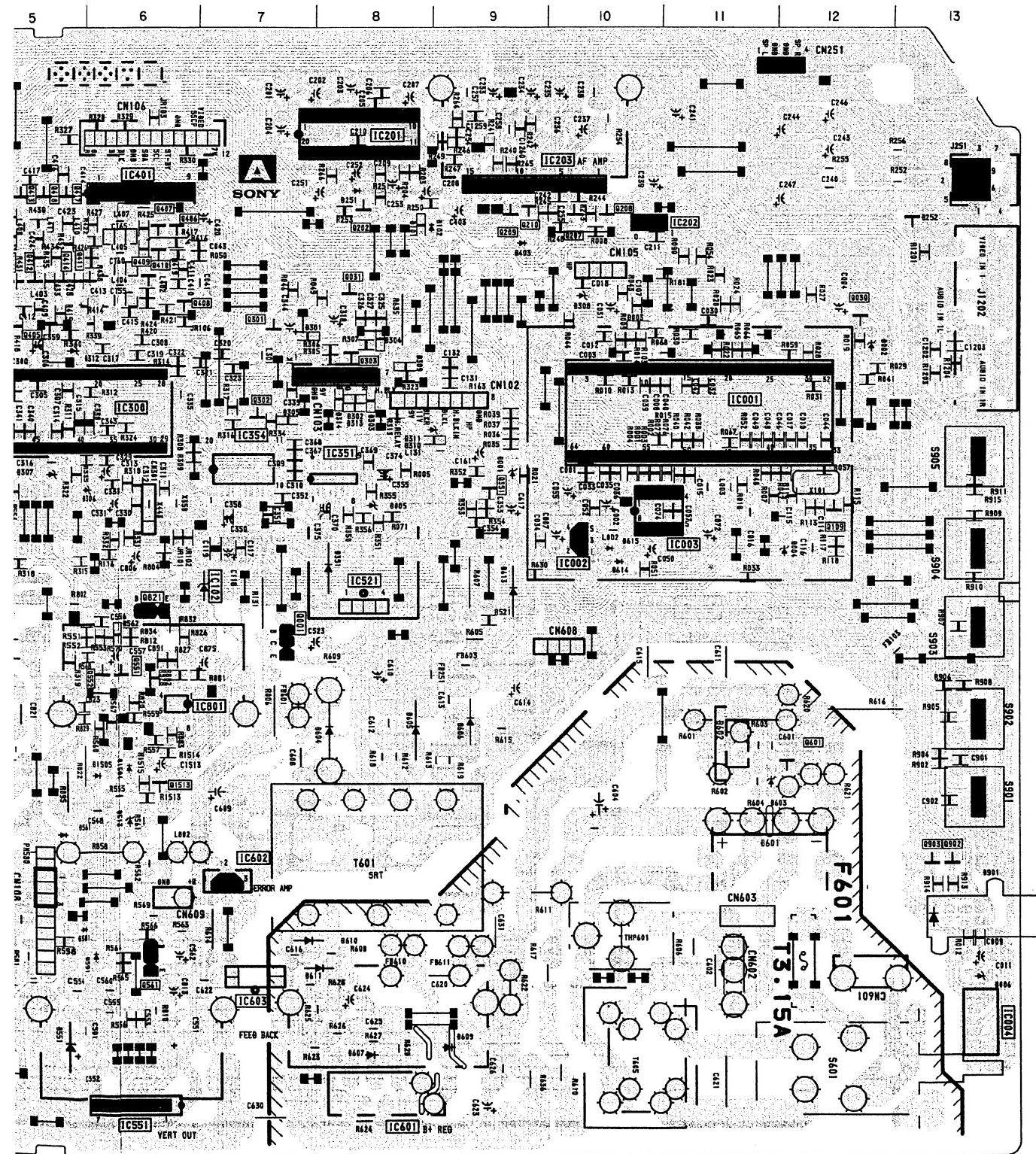
A BOARD

IC	Q1208 B-2 Q1265 C-2 Q1513 G-6
IC001	D-11
IC002	E-10
IC003	E-11
IC004	I-13
IC102	E-7
IC203	B-10
IC300	D-6
IC351	D-8
IC354	D-7
IC401	B-6
IC521	E-8
IC551	J-6
IC601	J-8
IC602	H-7
IC603	I-7
IC801	F-6
IC1210	A-2
DIODE	
D001	D-9
D002	C-12
D003	C-10
D004	E-12
D005	E-8
D101	B-8
D102	B-9
D103	D-1
D251	B-8
D252	B-13
D301	C-7
D302	D-8
D303	D-8
D304	C-8
D305	D-7
D306	D-6
D307	D-5
D308	C-10
D310	D-8
D311	D-8
D312	C-5
D313	D-8
D314	D-8
D351	E-8
D401	D-4
D402	B-5
D403	B-9
D513	G-6
D551	I-5
D561	G-5
D591	H-6
D601	G-11
D602	G-11
D603	G-11
D604	G-8
D605	G-8
D606	F-9
D607	I-8
D609	I-9
D610	H-7
D611	I-8
D801	F-2
D802	F-1
D851	H-4
D852	H-4
D853	J-3
D855	J-4
D857	F-3
D858	F-3
D860	E-2
D891	F-1
D901	H-13
D1201	A-2
D1202	B-2
D1207	B-2
D1208	B-2
D1504	G-6
D1505	G-6
D1506	G-6
D1507	G-6

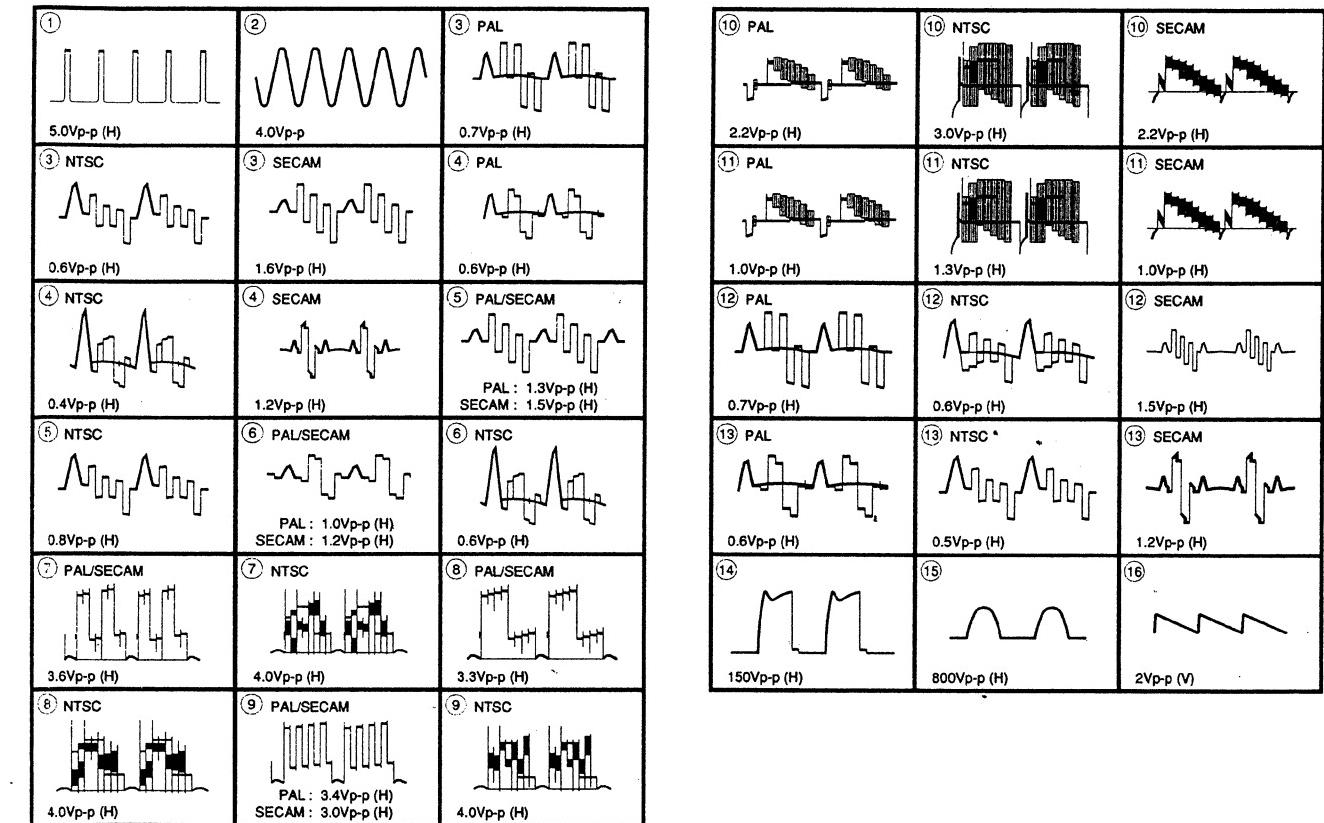
TRANSISTOR



VIDEO INPUT

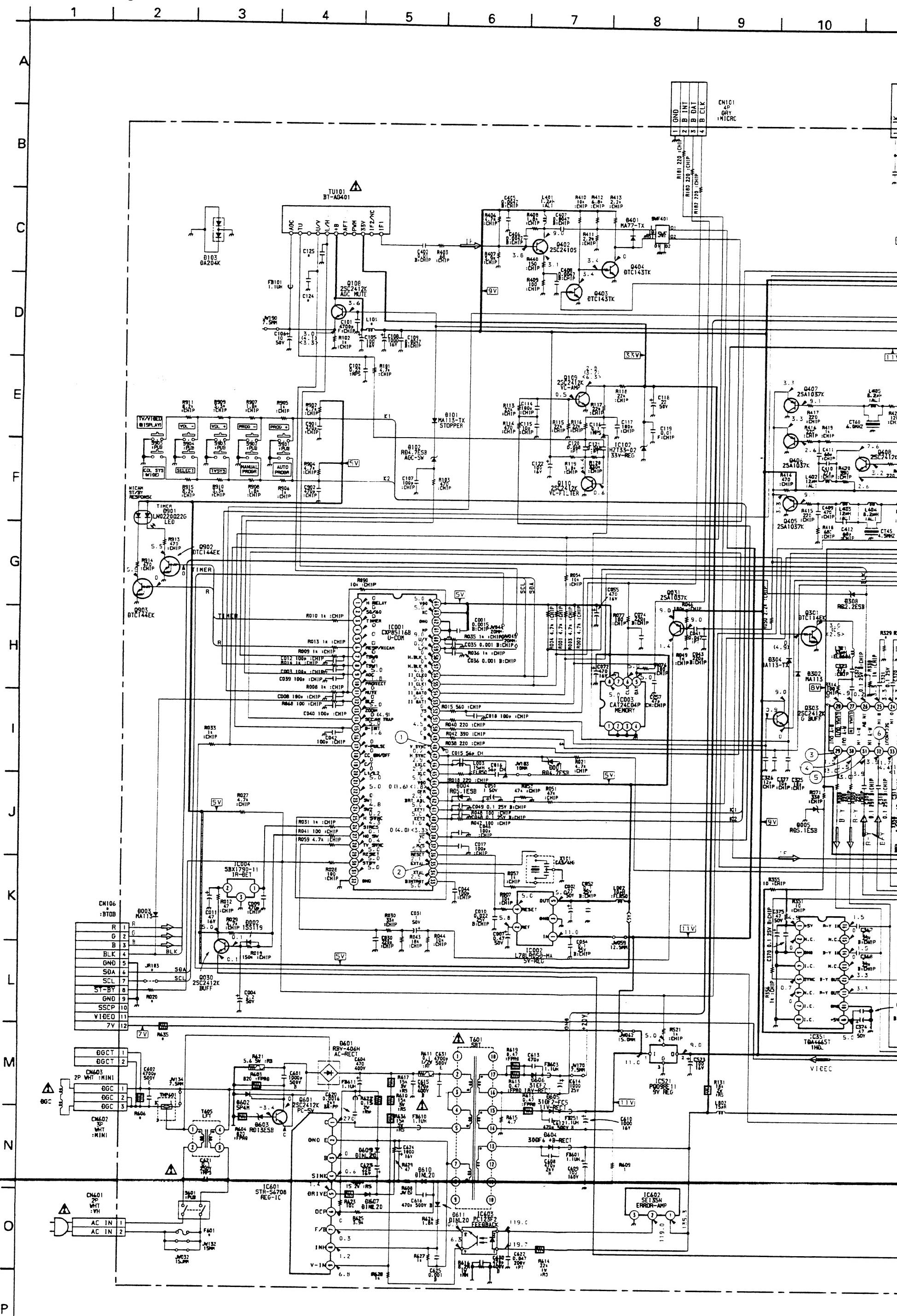


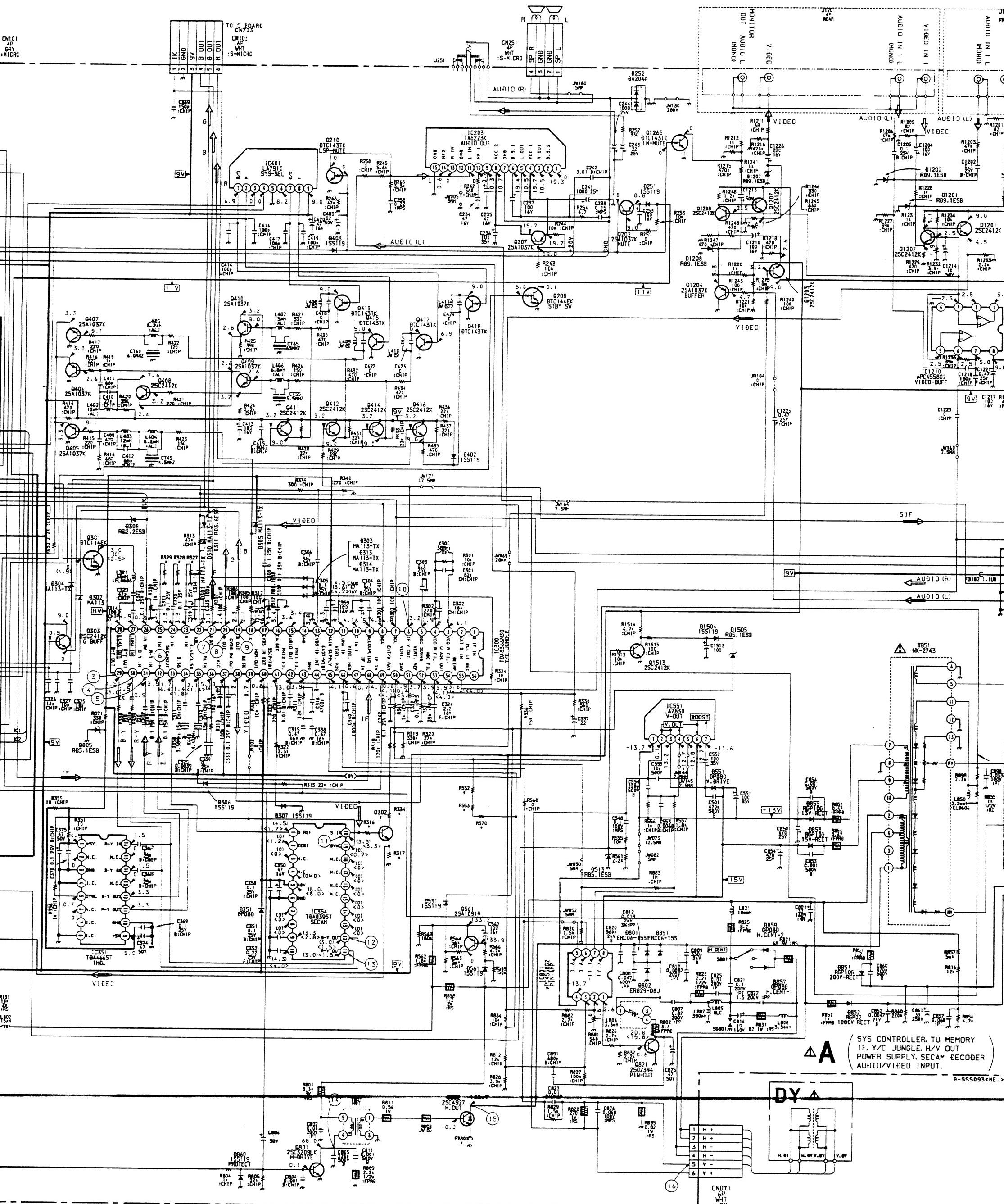
A BOARD WAVEFORMS

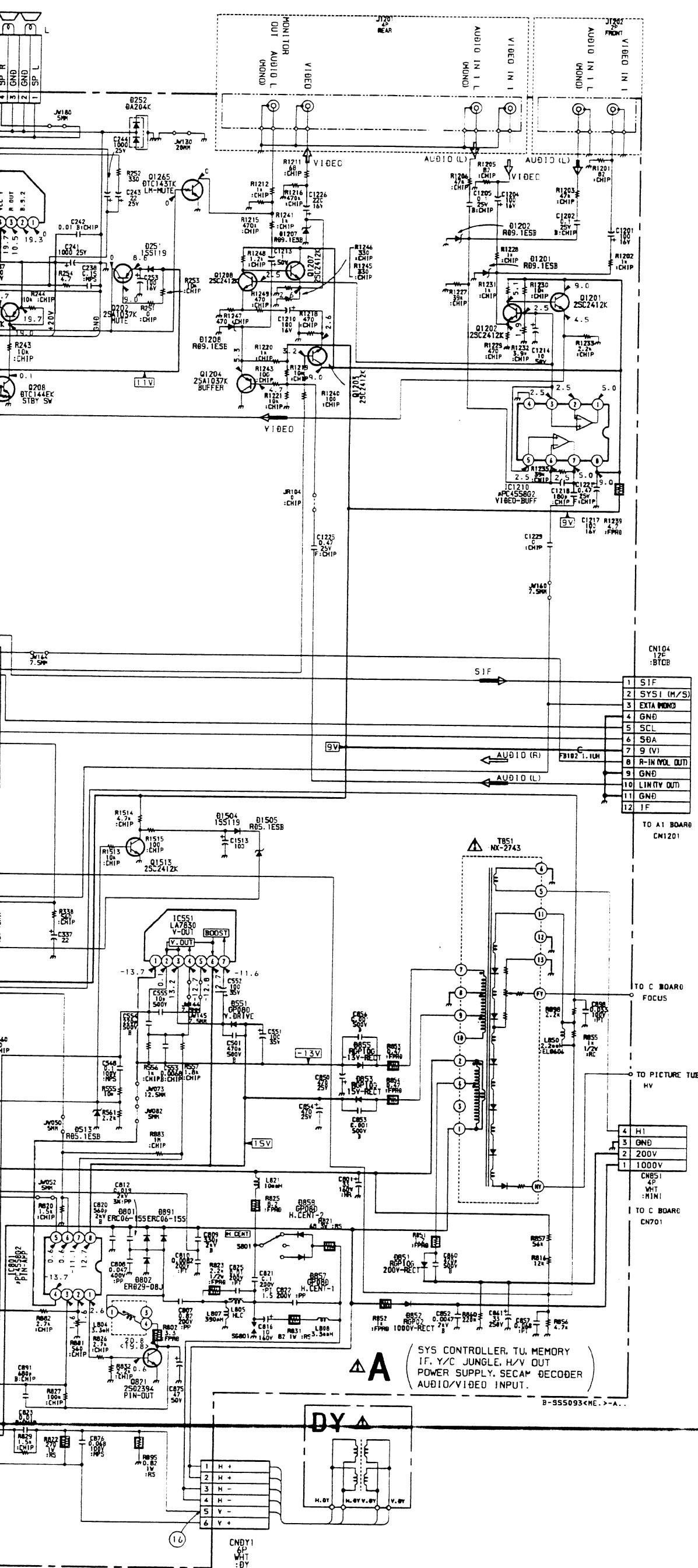


NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

(1) Schematic Diagram of A Board



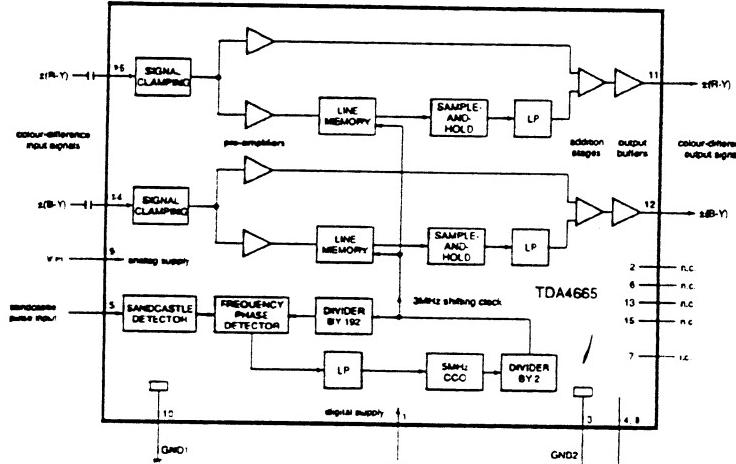




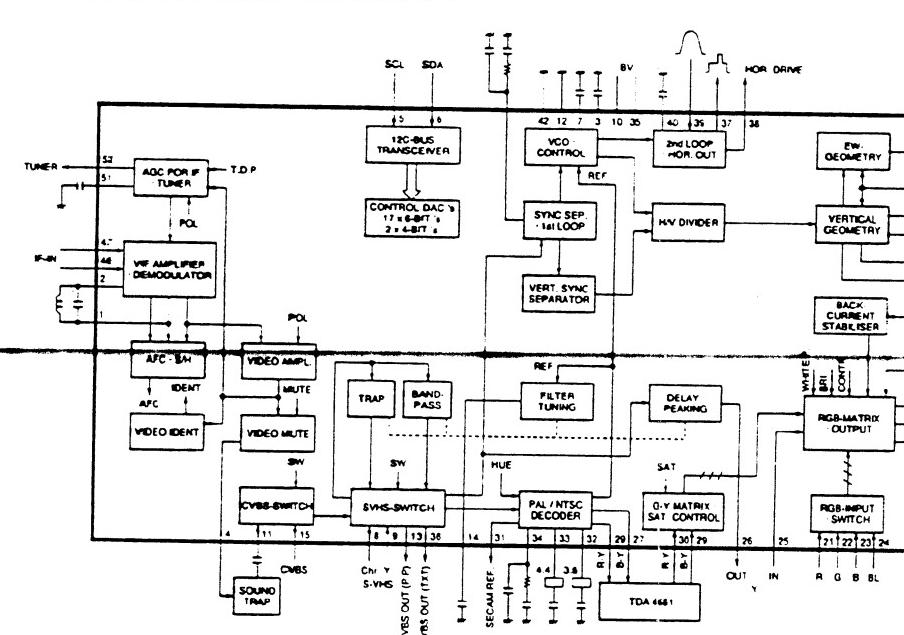
A BOARD * MARK LIST

	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(
CN106	NOT USED	NOT USED	NOT US
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD
F601	T3.15A	T3.15A	NOT US
FB801	1.1uH	1.1uH	1.9uH
JR103	NOT USED	NOT USED	NOT US
JW032	NOT USED	NOT USED	15MM
JW132	NOT USED	NOT USED	15MM
Q302	NOT USED	NOT USED	NOT US
R020	NOT USED	NOT USED	NOT US
R316	NOT USED	NOT USED	NOT US
R317	NOT USED	NOT USED	NOT US
R327	0 : CHIP	0 : CHIP	0 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP
R329	C : CHIP	0 : CHIP	0 : CHIP
R334	NOT USED	NOT USED	NOT USE
R552	NOT USED	NOT USED	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP
R635	NOT USED	NOT USED	NOT USE

A BOARD IC351 TDA4665T

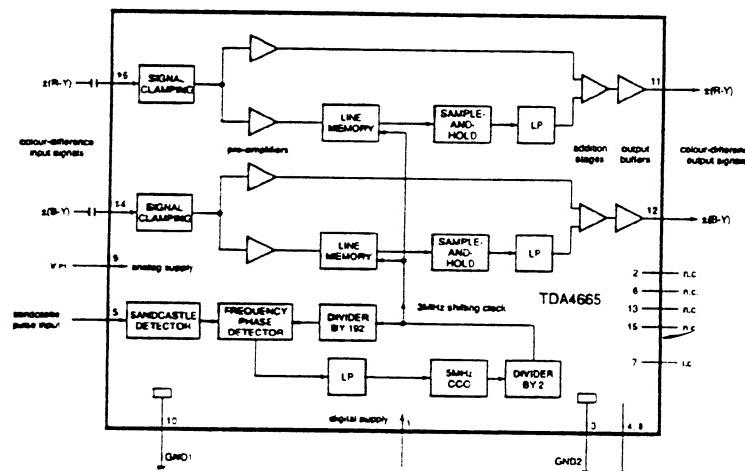
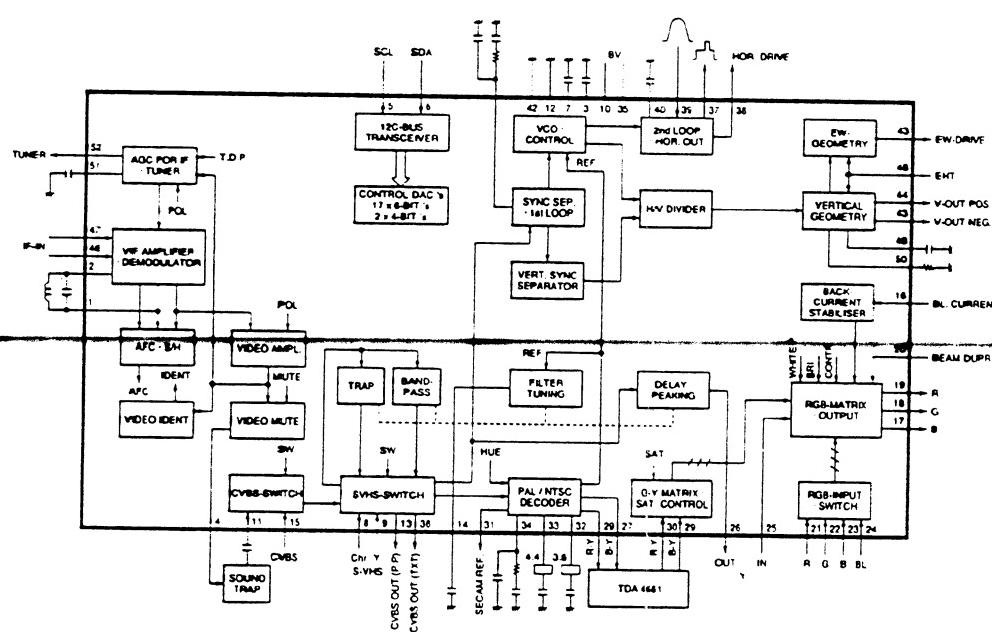


A BOARD IC300 TDA8366N3D

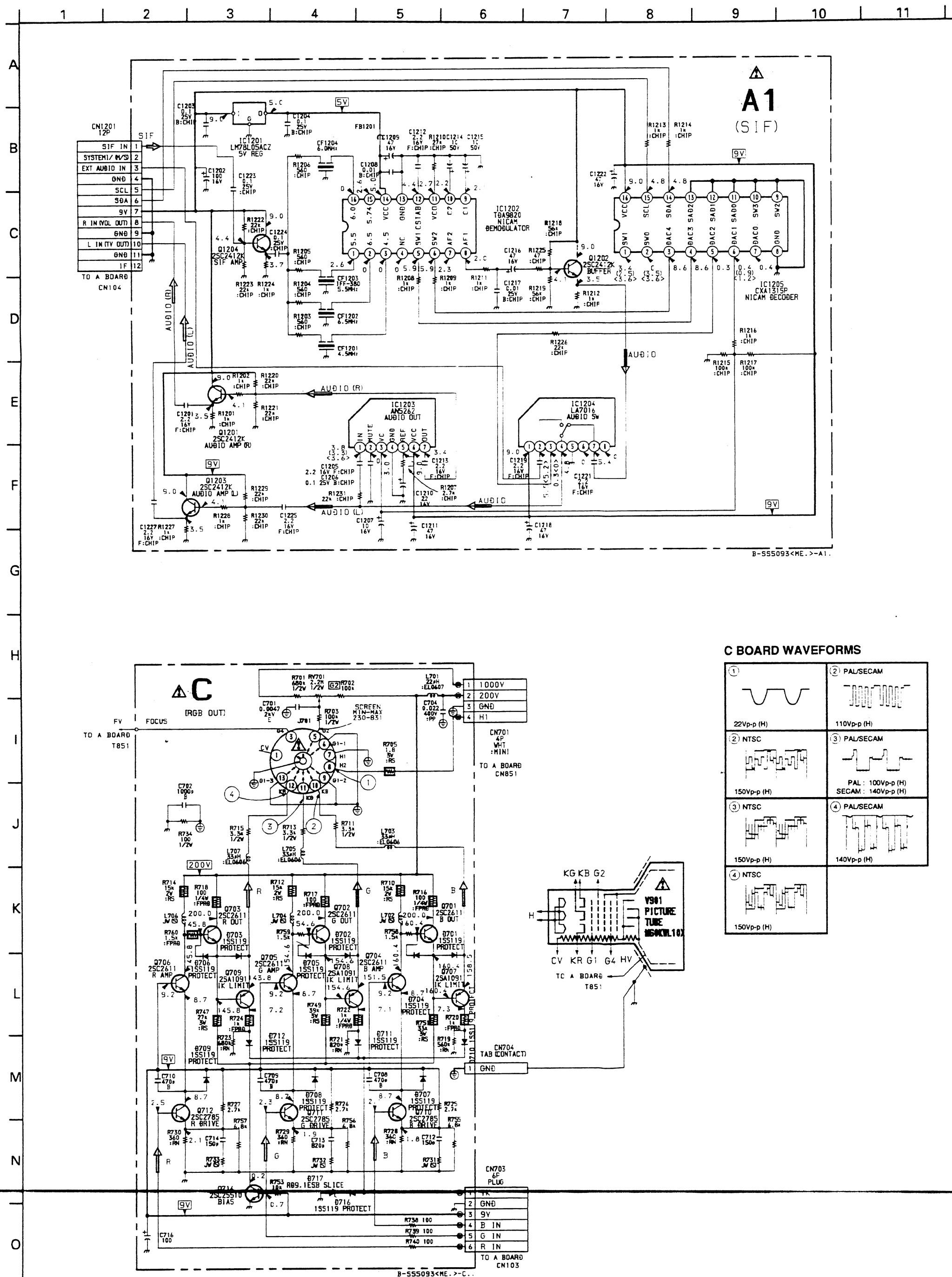


A BOARD * MARK LIST

	KV-G25M1(ME)	KV-G25M1(HK)	KV-G25M1(RUSS)	KV-G25M11
CN106	NOT USED	NOT USED	NOT USED	12P : BTOB
CN601	TO POWER CORD	TO POWER CORD	TO F1 BOARD CN1602	TO POWER CORD
F601	T3.15A	T3.15A	NOT USED	T3.15A
FB801	1.1uH	1.1uH	1.9uH	1.1uH
JR103	NOT USED	NOT USED	NOT USED	0 : CHIP
JW032	NOT USED	NOT USED	15MM	NOT USED
JW132	NOT USED	NOT USED	15MM	NOT USED
Q302	NOT USED	NOT USED	NOT USED	2SC2412K
R020	NOT USED	NOT USED	NOT USED	100 : CHIP
R316	NOT USED	NOT USED	NOT USED	4.7K : CHIP
R317	NOT USED	NOT USED	NOT USED	1K : CHIP
R327	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R328	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R329	0 : CHIP	0 : CHIP	0 : CHIP	100 : CHIP
R334	NOT USED	NOT USED	NOT USED	470 : CHIP
R552	NOT USED	NOT USED	220K : CHIP	220K : CHIP
R553	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R570	NOT USED	NOT USED	0 : CHIP	0 : CHIP
R635	NOT USED	NOT USED	NOT USED	22 2W :RS

CN104
12P : BTOB1 SIF
2 SYS1 (M/S)
3 EXTA (MONO)
4 GND
5 SCL
6 SDA
7 9 (V)
8 R-IN (VOL OUT)
9 GND
10 LIN (V OUT)
11 GND
12 IFTO A1 BOARD
CM1201**A BOARD IC351 TDA4665T****A BOARD IC300 TDA8366N3D**

(2) Schematic Diagrams of A1, C, F1 and V1 Boards



Schematic diagram

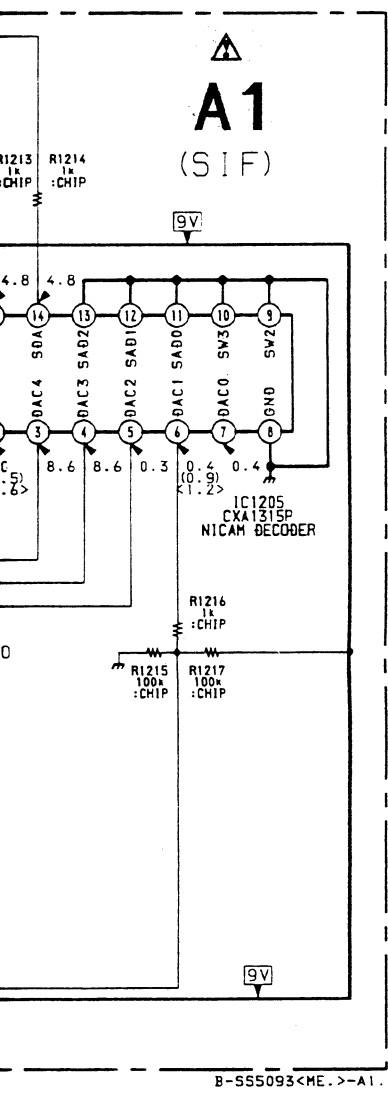
← A board

- 35 -

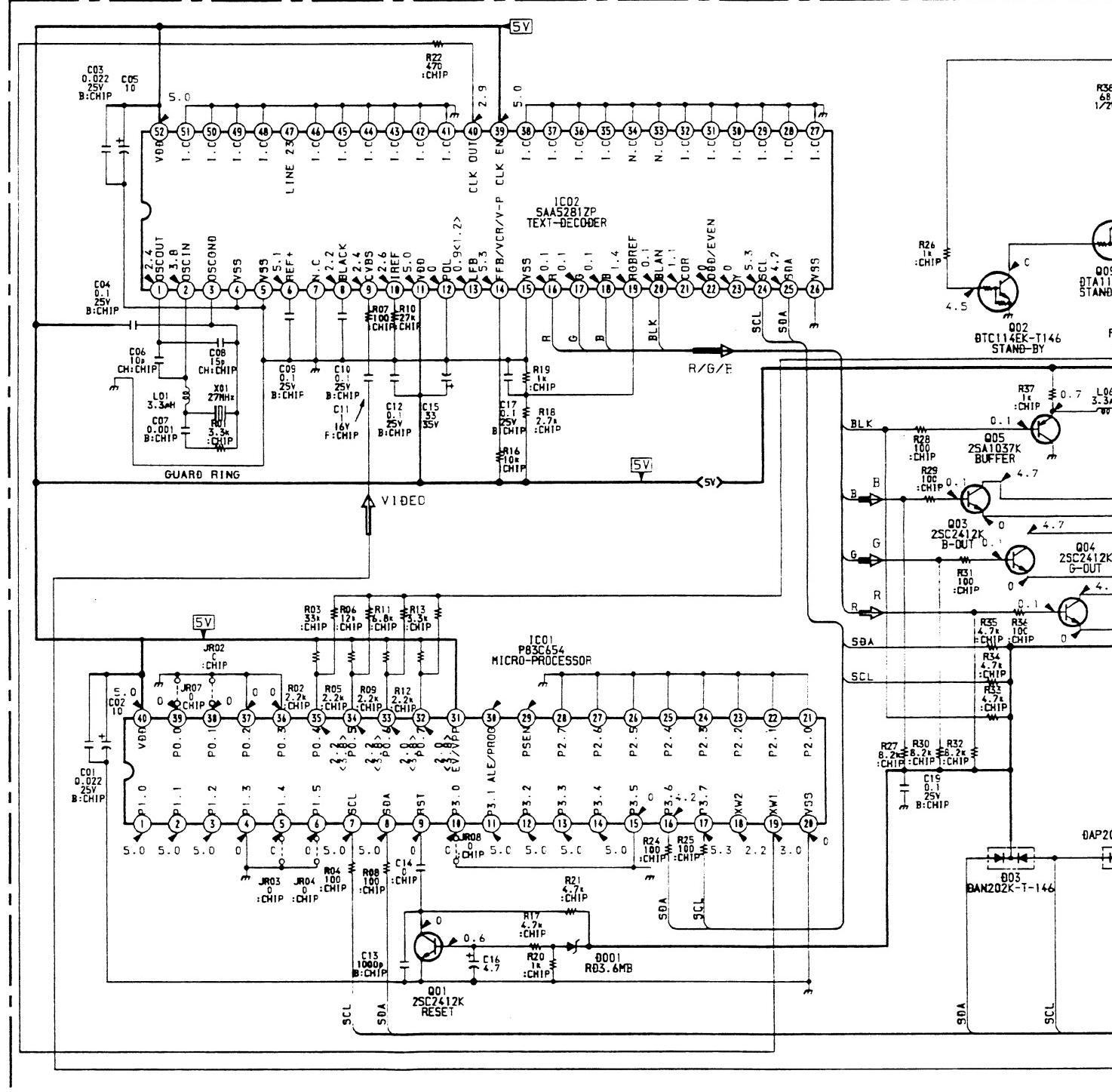
Schematic diagrams

A1, C, F1, V1 boards →

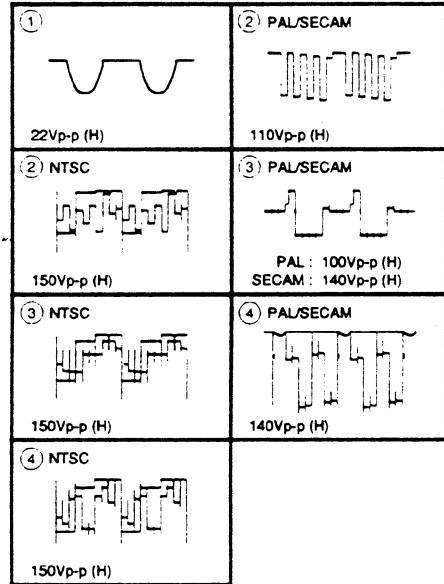
- 36 -



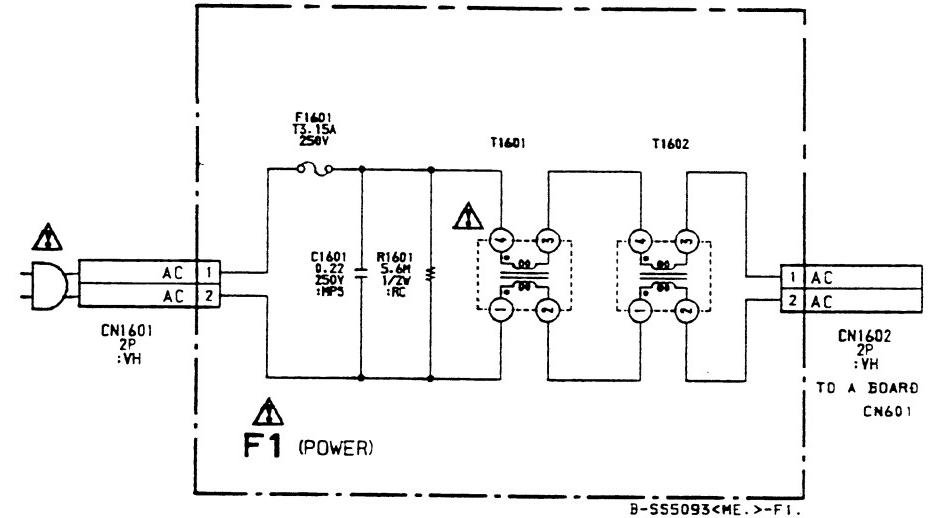
(KV-G25M11 only)



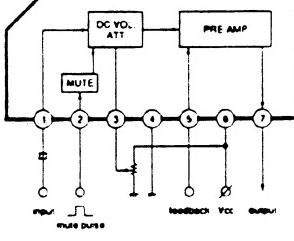
C BOARD WAVEFORMS

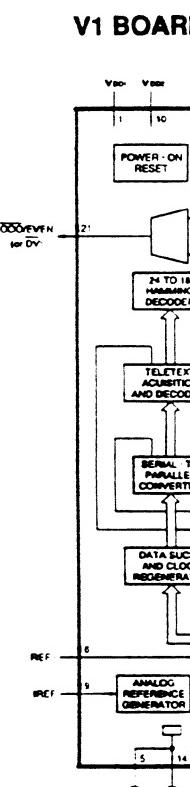
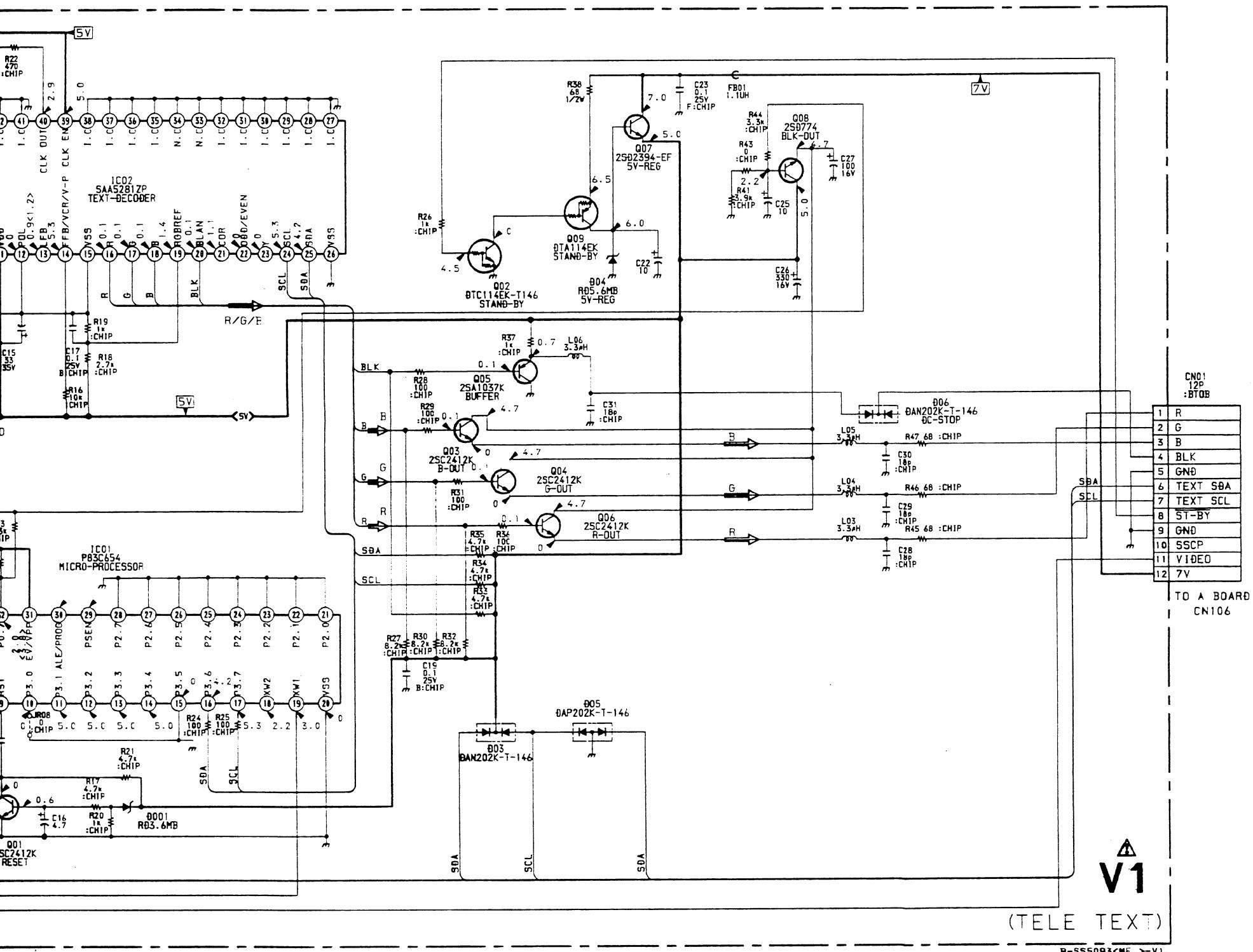


(KV-G25M1 (RUSS) only)



A1 BOARD IC1203 AN5262





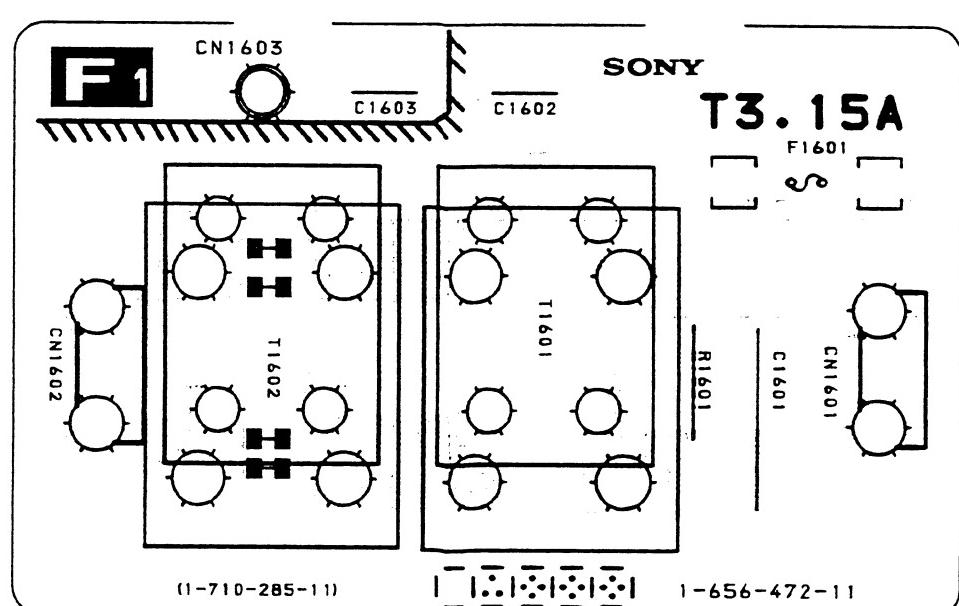
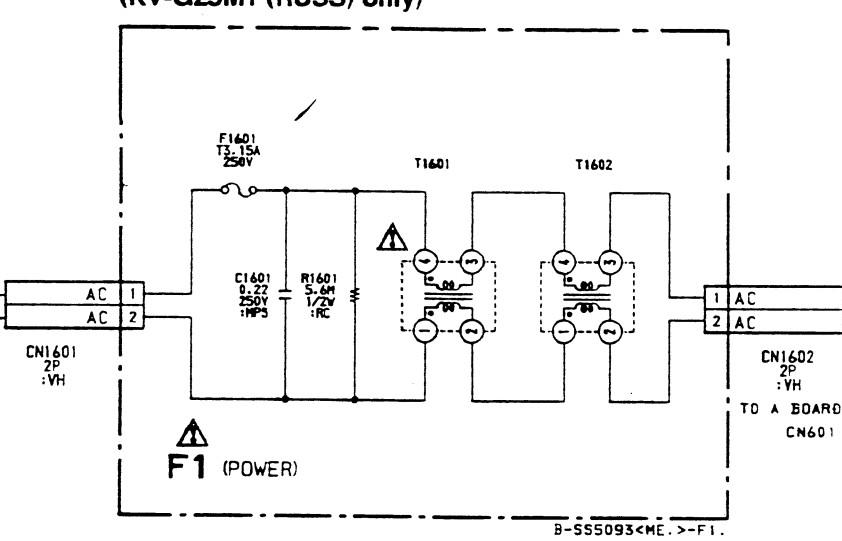
PRINTED WIRING BOARD

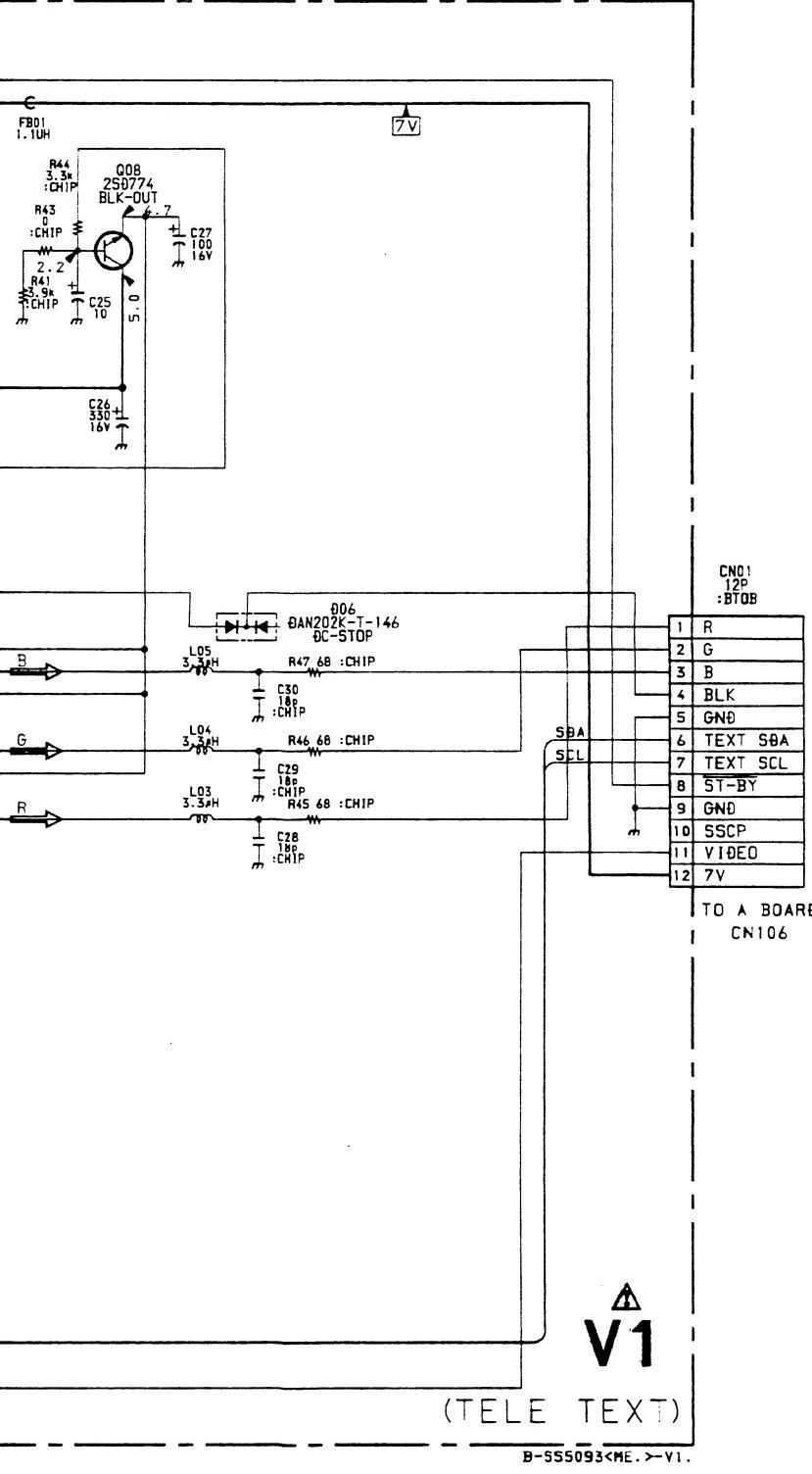
F1

[POWER]

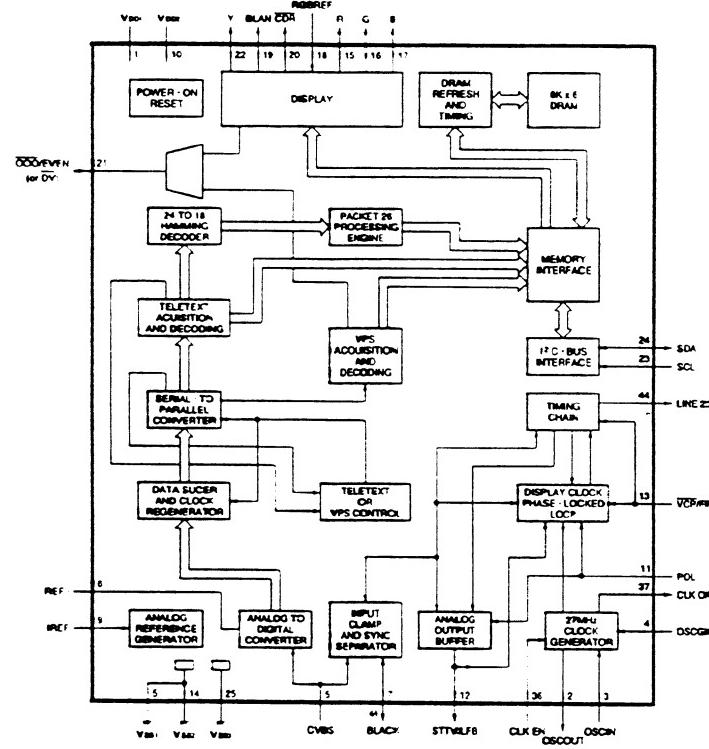
- F1 Board - (KV-G25M1 (RUSS) only)

(KV-G25M1 (RUSS) only)





V1 BOARD IC02 SAA5281ZP

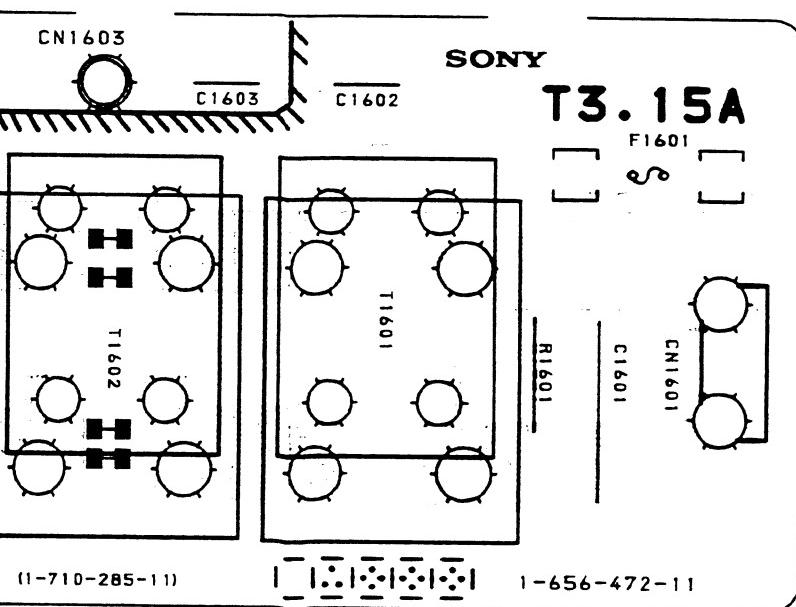


WIRING BOARD

F1

[POWER]

- (KV-G25M1 (RUSS) only)



PRINTED WIRING BOARDS

A1

[SIF]

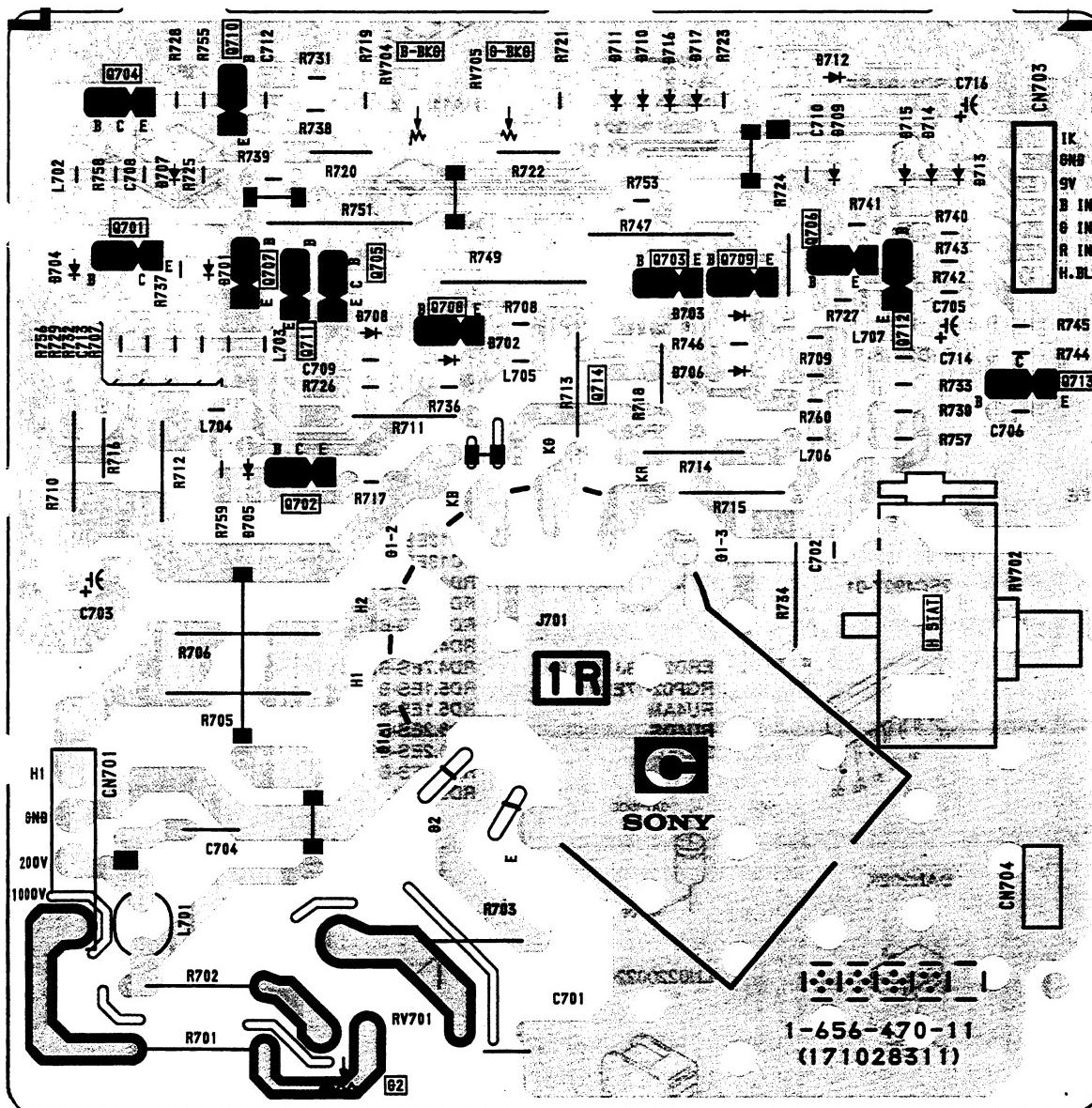
C

[RGB OUT]

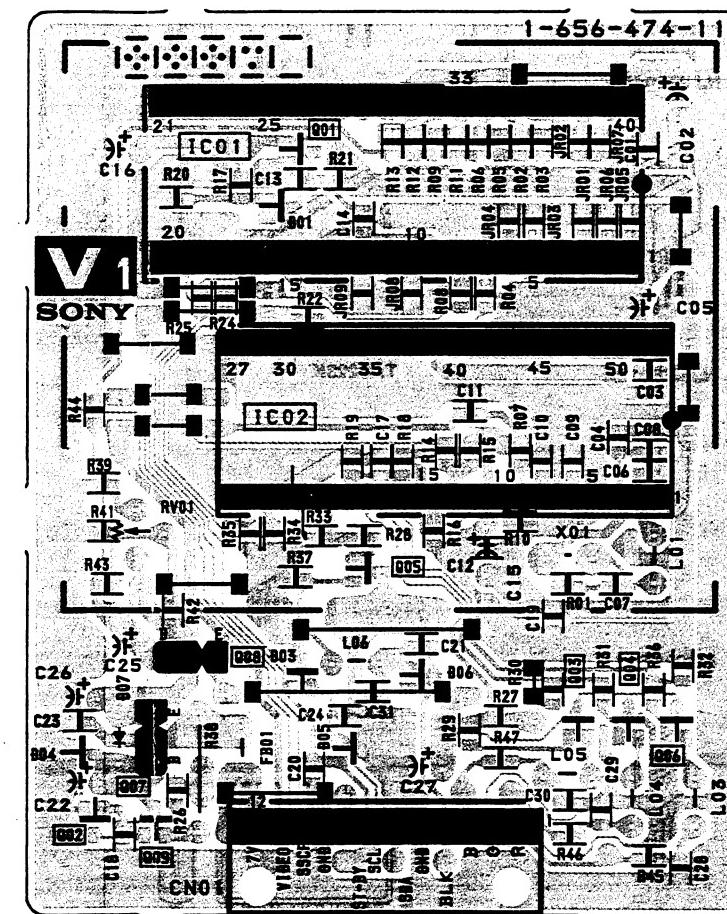
V1

[TELE TEXT]

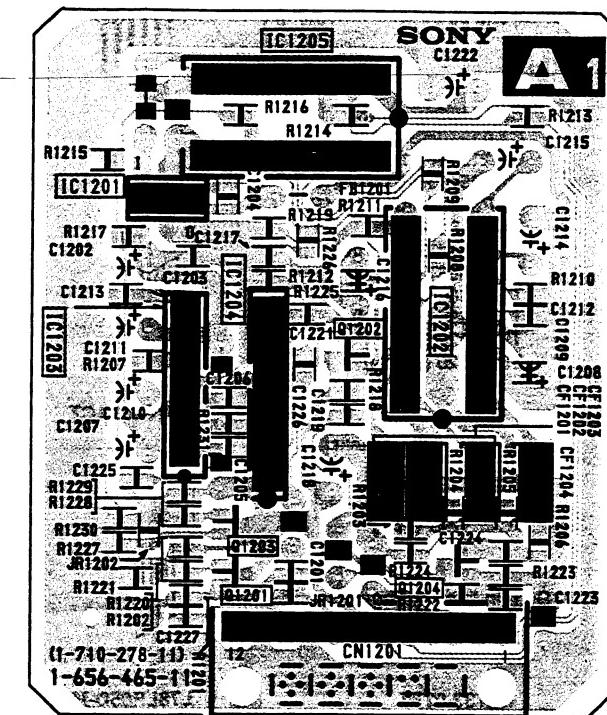
- C Board -



- V1 Board - (KV-G25M11 only)



- A1 Board -

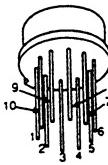


KV-G25M1/G25M11
RM-870

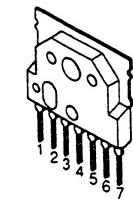
KV-G25M1/G25M11
RM-870

5-4. SEMICONDUCTORS

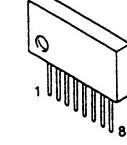
AN5262



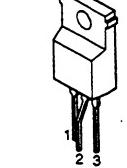
LA7830



NJM2234L

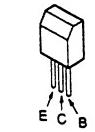


SE-135N

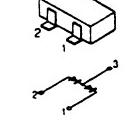


**DTA114EK
DTC114EK
DTC143TK
DTC144EK
2SA1037K-QR
2SA1162-G
2SC1623-L5L6
2SC2412K-QR
2SC2712-YG**

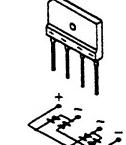
**2SC3209LK
2SD774-34**



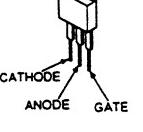
DA204K



**LN4SB60
RBV-406H**

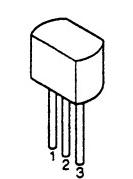


5P4M

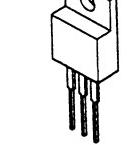


**CAT24C04P (8PIN)
CXA1110BS (30PIN)
CXA1315P (16PIN)
CXP85116B-615S (64PIN)
CXP85224A-010S (64PIN)
P83C654 (40PIN)
SAA5281ZP (52PIN)
TDA4665T (16PIN)
TDA8366N3D (56PIN)
TDA8395T (20PIN)
TDA8424 (20PIN)
TDA9820 (16PIN)**

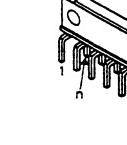
LA7910



NJM7805FA

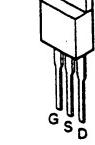


STR-S6708

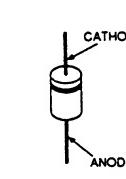


**2SA1091
2SA1091-O
2SC2551-O**

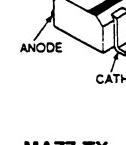
2SD2394-EF



**D1NL20
EL-1Z
GP08D
GP08DPKG23
RGP10GPKG23**



MA113-TX

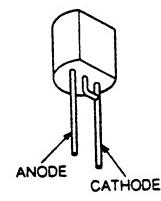


PC123F2

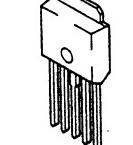


**Dual In-line Package
Pin 6 ~ 98**

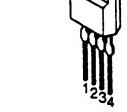
**HZT33-02TE
 μ PC574J**



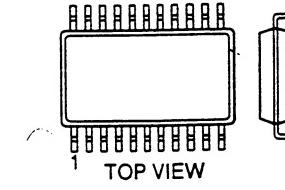
L78LR05D-MA



PQ09RE11



μ PC4558G2 (8PIN)



**2SC2410SN
2SC2785-HFE**

2SD2394-F

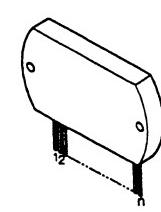
**ERC06-15S
S3L20UF4
30DF6FC8**



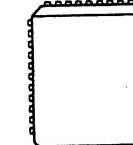
RD13ES-B

**RD2.2ES-B
RD3.6ES-B
RD3.6ES-B1
RD4.7ES-B
RD4.7ES-B2
RD5.1ES-B
RD5.1ES-B1
RD8.2ES-B
RD8.2ES-B2
RD9.1ES-B
RD9.1ESL**

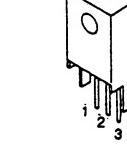
LA7016



MSP3410 (44PIN)



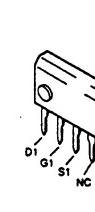
**SBX1790-11
SBX1790-51**



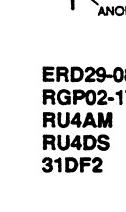
**Small Outline L-leaded Package
Pin 8 ~ 98**

2SC2611

2SC4927-01



**ERD29-08J
RGP02-17EL
RU4AM
RU4DS
31DF2**



DAN202K



**Quad Flat J-leaded Package
Pin 20 ~ 996**

2SC2669-O

DAP202K

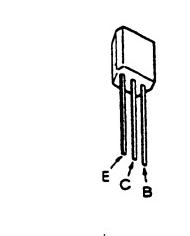


LN0220022G

RD3.6M-B

**RD3.6M-B1
RD5.6M-B
RD5.6M-B2**

TOP VIEW



TOP VIEW

RD3.6M-B

**RD3.6M-B1
RD5.6M-B
RD5.6M-B2**

SECTION 6 EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

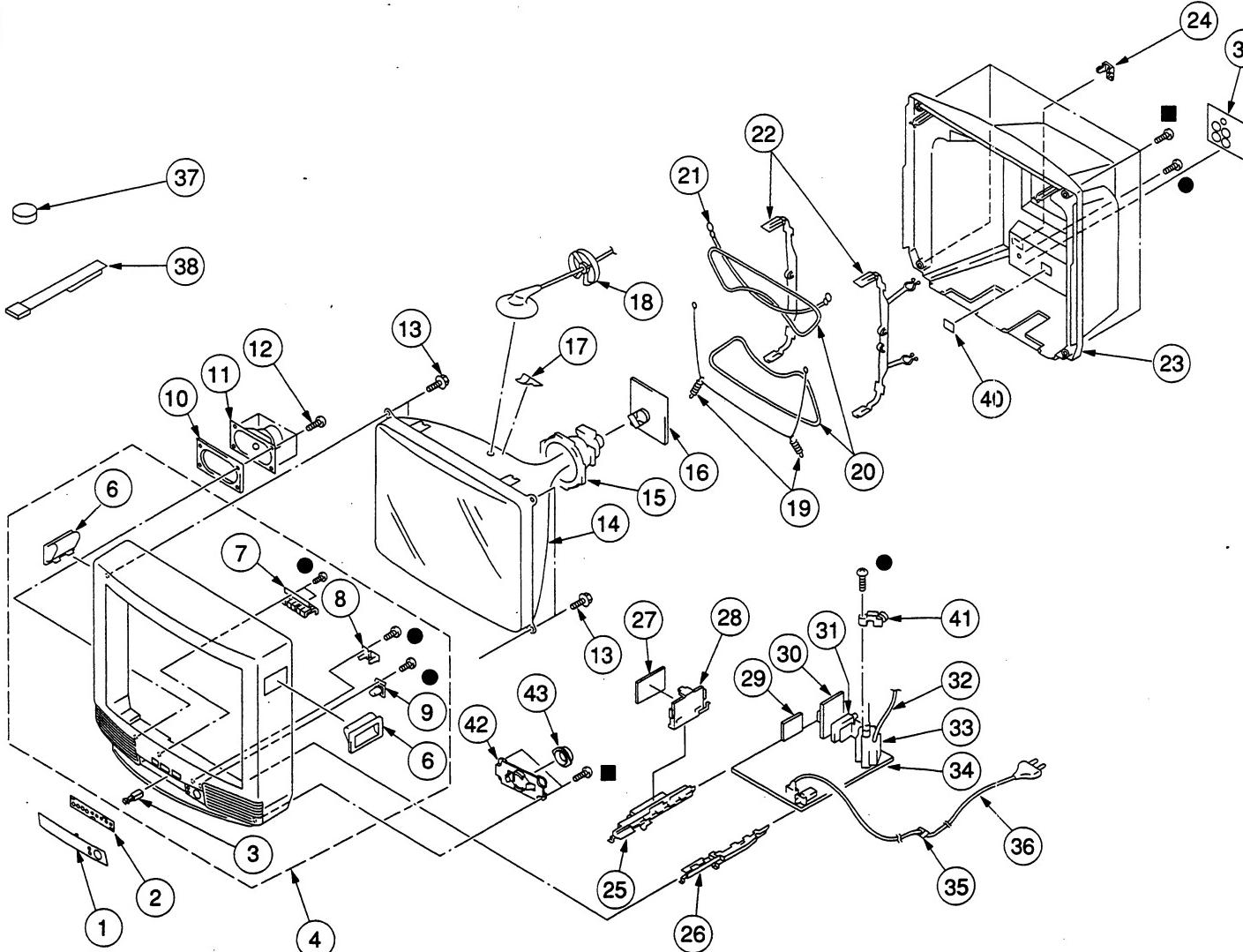
The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

KV-G25M1/G25M11
RM-870

KV-G25M1/G25M11
RM-870

6-1. CHASSIS

- : BVTP3 x 12 7-685-648-79
- : BVTP4 x 16 7-685-663-79



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-048-702-11	DOOR, CONTROL	
2	4-048-575-11	LABEL, CONTROL	
3	4-627-936-01	LOCK, MINIATURE SIDE	
4	X-4032-787-1	BEZNET ASSY	
6	4-048-691-01	HANDLE	
7	4-048-687-01	BUTTON, MULTI	
8	4-049-123-01	GUIDE, LIGHT	
9	4-048-688-01	BUTTON, POWER	
10	4-037-613-01	CUSHION, SP	
11	1-504-305-11	SPEAKER (5X12CM)	
12	4-043-388-01	SCREW, STEP TAPPING	
13	4-390-505-01	SCREW (7), TAPPING	
14	A-3-733-242-05	PICTURE TUBE (MGK371100)	
15	A-3-451-401-01	DETECTION ZONE (125GAS)	
16	*A-1331-428-A	C BOARD, COMPLETE	
17	3-704-495-01	SPACER, DY	
18	*3-704-372-11	HOLDER, HV CABLE	
19	4-369-318-61	SPRING, TENSION	
20	A-1403-619-11	COIL, DE MAGNETIZATION	
21	4-043-827-11	BAND, DEGAUSSING COIL	
22	*4-042-988-01	HOLDER, DGC	
23	4-048-703-01	COVER, REAR	
24	4-049-130-01	CLAMP, CODE	
25	*4-048-690-01	RAIL (L), GUIDE	
26	*4-048-689-01	RAIL (R), GUIDE	
27	*A-1241-190-A	F1 BOARD, COMPLETE (KV-G25M1(RUSS))	
28	*4-049-158-01	BRACKET, F1 PC BOARD (KV-G25M1(RUSS))	
29	*A-1347-103-A	V1 BOARD, COMPLETE (KV-G25M1)	
30	*A-1292-869-A	A1 BOARD, COMPLETE	
31	A-5398-323-00	TUNER, RF (AGC)	
32	1-900-212-02	LEAD ASSY, FOCUS	
33	A-1452-180-11	TRANSFORMER, LINE (117V/110V)	
34	*A-1297-513-A	A BOARD, COMPLETE (KV-G25M1(ME))	
	*A-1297-552-A	A BOARD, COMPLETE (KV-G25M1(HK))	
	*A-1297-554-A	A BOARD, COMPLETE (KV-G25M1(RUSS))	
	*A-1297-566-A	A BOARD, COMPLETE (KV-G25M1)	
35	A-1452-180-11	TRANSFORMER, LINE (117V/110V)	
36	A-1-571-002-22	DOOR, COVER WITH STAINLESS STEEL PLATE	
		STAINLESS STEEL PLATE	
		DOOR, COVER WITH STAINLESS STEEL PLATE	
		STAINLESS STEEL PLATE	
37	1-452-032-00	MAGNET, DISC	
38	X-4387-214-1	PERMALOY ASSY, CORRECTION	
39	4-049-121-01	LABEL, TERMINAL	
40	4-049-416-01	SHIELD, BLIND	
41	4-039-460-01	HOLDER, FBT	
42	*4-049-124-01	BRACKET, SPEAKER	
43	1-544-453-21	SPEAKER (2CM)	

KV-G25M1/G25M11
RM-870

KV-G25M1/G25M11
RM-870

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since service. Some delay should be anticipated when ordering these items.
- All resistors are in ohms
- F : nonflammable
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- MF : μ F, PF : $\mu\mu$ F
- MMH : μ H, UH : μ H

A1

A1 A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
* A-1292-869-A A1 BOARD, COMPLETE											

<TRANSISTOR>											
C1201	1-164-505-11	CERAMIC CHIP 2.2MF	16V	Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
C1202	1-104-665-11	ELECT	100MF 20%	Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
C1203	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
C1204	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q1204	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
C1205	1-164-505-11	CERAMIC CHIP 2.2MF	16V	Q1205	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
C1206	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	<RESISTOR>							
C1207	1-126-157-11	ELECT	10MF 20%	R1201	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
C1208	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R1202	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
C1209	1-104-664-11	ELECT	47MF 20%	R1203	1-216-043-91	METAL GLAZE 560	5% 1/10W				
C1210	1-124-234-00	ELECT	22MF 20%	R1204	1-216-043-91	METAL GLAZE 560	5% 1/10W				
C1211	1-104-664-11	ELECT	47MF 20%	R1205	1-216-043-91	METAL GLAZE 560	5% 1/10W				
C1212	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1206	1-216-043-91	METAL GLAZE 560	5% 1/10W				
C1213	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1207	1-216-059-00	METAL GLAZE 2.7K	5% 1/10W				
C1214	1-124-907-11	ELECT	10MF 20%	R1208	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
C1215	1-124-907-11	ELECT	10MF 20%	R1209	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
C1216	1-104-664-11	ELECT	47MF 20%	R1210	1-216-083-00	METAL GLAZE 27K	5% 1/10W				
C1217	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	R1211	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W				
C1218	1-104-664-11	ELECT	47MF 20%	R1212	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
C1219	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1213	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
C1221	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1214	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
C1222	1-104-664-11	ELECT	47MF 20%	R1215	1-216-097-00	METAL GLAZE 100K	5% 1/10W				
C1223	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R1216	1-216-049-00	METAL GLAZE 1K	5% 1/10W				
C1224	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R1217	1-216-097-00	METAL GLAZE 100K	5% 1/10W				
C1225	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1218	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
C1227	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R1219	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
<CONNECTOR>											
CF1201	1-527-943-00	FILTER, CERAMIC		R1220	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
CF1202	1-567-101-11	FILTER, CERAMIC		R1221	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
CF1203	1-567-099-00	FILTER, CERAMICO		R1222	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
CF1204	1-567-100-00	FILTER, CERAMIC		R1223	1-216-081-00	METAL GLAZE 22K	5% 1/10W				
CN1201 *1-770-748-11 CONNECTOR, BOARD TO BOARD 12P											

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK

R1224	1-216-049-00	METAL GLAZE 1K	5% 1/10W	C101	1-163-029-11	CERAMIC CHIP 0.0047MF	50V
R1225	1-216-017-00	METAL GLAZE 47	5% 1/10W	C102	1-136-169-00	FILM 0.22MF	5% 50V
R1226	1-216-081-00	METAL GLAZE 22K	5% 1/10W	C105	1-104-665-11	ELECT 100MF	20% 16V
R1227	1-216-049-00	METAL GLAZE 1K	5% 1/10W	C106	1-124-907-11	ELECT 10MF	20% 50V
R1228	1-216-049-00	METAL GLAZE 1K	5% 1/10W	C107	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R1229	1-216-081-00	METAL GLAZE 22K	5% 1/10W	C108	1-126-942-61	ELECT 1000MF	20% 16V
R1230	1-216-081-00	METAL GLAZE 22K	5% 1/10W	C109	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
R1231	1-216-081-00	METAL GLAZE 22K	5% 1/10W	C114	1-163-117-00	CERAMIC CHIP 100PF	5% 50V

* A-1297-513-A A BOARD, COMPLETE (KV-G25M1(ME))							
* A-1297-552-A A BOARD, COMPLETE (KV-G25M1(HK))							
* A-1297-554-A A BOARD, COMPLETE (KV-G25M1(RUSS))							
* A-1297-566-A A BOARD, COMPLETE (KV-G25M11)							

* A-124-916-11 ELECT 22MF							
C119 1-163-059-00 CERAMIC CHIP 0.01MF							
C120 1-136-167-00 FILM 0.15MF							
C121 1-130-493-00 MYLAR 0.068MF							
C122 1-104-665-11 ELECT 100MF							
C124 1-163-029-11 CERAMIC CHIP 0.0047MF							
C125 1-163-029-11 CERAMIC CHIP 0.0047MF							
C234 1-104-664-11 ELECT 47MF							
C235 1-104-664-11 ELECT 47MF							
C236 1-126-968-11 ELECT 100MF							
C237 1-104-665-11 ELECT 100MF							
C238 1-136-167-00 FILM 0.22MF							
C241 1-124-557-11 ELECT 1000MF							
C242 1-164-232-11 CERAMIC CHIP 0.01MF							
C243 1-126-23							

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The components identified by shading and mark are critical for safety. Replace only with part number specified.

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F. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C330	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C609	1-126-600-11	ELECT	100MF 20% 160V
C332	1-136-165-00	FILM 0.1MF	5% 50V	C610	1-126-942-61	ELECT	1000MF 20% 16V
C333	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C612	1-102-228-00	CERAMIC	470PF 10% 500V
C335	1-102-973-00	CERAMIC 100PF	5% 50V	C613	1-102-824-00	CERAMIC	470PF 5% 50V
C337	1-124-916-11	ELECT 22MF	20% 50V	C614	1-124-557-11	ELECT	1000MF 20% 25V
C338	1-165-320-11	CERAMIC CHIP 0.47MF	10% 16V	C615	Δ 1-164-497-51	CERAMIC	470PF 10% 400V
C339	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C616	1-102-228-00	CERAMIC	470PF 10% 500V
C340	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C620	1-136-619-11	FILM	0.0016MF 3% 2KV
C342	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C621	Δ 1-136-548-13	FILM	0.1MF 20% 250V
C344	1-124-907-11	ELECT 10MF	20% 50V	C622	1-106-383-00	MYLAR	0.047MF 10% 200V
C350	1-104-664-11	ELECT 47MF	20% 16V	C623	1-124-120-11	ELECT	220MF 20% 16V
C351	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C624	1-126-942-61	ELECT	1000MF 20% 16V
C352	1-164-222-11	CERAMIC CHIP 0.22MF	25V	C625	1-102-074-00	CERAMIC	0.001MF 10% 50V
C358	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C630	Δ 1-164-497-51	CERAMIC	470PF 10% 400V
C359	1-104-665-11	ELECT 100MF	20% 16V	C631	1-161-830-00	CERAMIC	0.0047MF 99% 500V
367	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C801	1-123-024-21	ELECT	33MF 160V
C368	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C802	1-106-367-00	MYLAR	0.01MF 10% 200V
C369	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C804	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V
C370	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	C805	1-102-244-00	CERAMIC	220PF 10% 500V
C374	1-124-910-11	ELECT 47MF	20% 50V	C806	1-124-903-11	ELECT	1MF 20% 50V
C375	1-124-910-11	ELECT 47MF	20% 50V	C807	1-136-540-11	FILM	0.82MF 5% 200V
C402	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C808	1-130-959-00	FILM	0.047MF 10% 400V
C403	1-124-916-11	ELECT 22MF	20% 50V	C809	1-162-115-00	CERAMIC	330PF 10% 2KV
C405	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C810	1-106-365-00	MYLAR	0.0082MF 99% 200V
C406	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C811	1-162-318-11	CERAMIC	0.001MF 10% 500V
407	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C812	1-136-617-11	FILM	0.019M 3% 2KV
C408	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C816	1-123-947-00	ELECT	10MF 20% 160V
C409	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C820	1-162-135-11	CERAMIC	560PF 10% 2KV
C410	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	C821	1-106-391-12	MYLAR	0.1MF 10% 200V
C411	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C822	1-136-541-11	FILM	1.5MF 5% 200V
C412	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	C823	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
C413	1-104-665-11	ELECT 100MF	20% 16V	C825	1-106-367-00	MYLAR	0.01MF 10% 200V
C414	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C850	1-124-480-11	ELECT	470MF 20% 25V
C415	1-163-017-00	CERAMIC CHIP 0.0047MF	10V 50V	C852	1-104-574-11	CERAMIC	0.0047MF 10% 2KV
C416	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C853	1-162-318-11	CERAMIC	0.001MF 10% 500V
.417	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C854	1-124-480-11	ELECT	470MF 20% 25V
C418	1-216-295-00	CONDUCTOR, CHIP (2012)		C856	1-162-318-11	CERAMIC	0.001MF 10% 500V
C419	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C857	1-130-493-00	MYLAR	0.068MF 5% 50V
C420	1-104-664-11	ELECT 47MF	20% 16V	C860	1-102-228-00	CERAMIC	470PF 10% 500V
C422	1-216-295-00	CONDUCTOR, CHIP (2012)		C861	1-107-654-11	ELECT	33MF 20% 250V
C423	1-216-295-00	CONDUCTOR, CHIP (2012)		C875	1-124-910-11	ELECT	47MF 20% 50V
C424	1-216-295-00	CONDUCTOR, CHIP (2012)		C876	1-108-702-11	MYLAR	0.068MF 10% 100V
C425	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C891	1-163-007-11	CERAMIC CHIP	680PF 10% 50V
C501	1-102-228-00	CERAMIC 470PF	10% 500V	C898	1-106-379-12	MYLAR	0.033MF 10% 100V
C523	1-104-665-11	ELECT 100MF	20% 16V	C901	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C548	1-106-220-00	MYLAR 0.1MF	10% 100V	C902	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C551	1-126-968-11	ELECT 100MF	20% 35V	C1201	1-104-665-11	ELECT	100MF 20% 16V
C552	1-126-968-11	ELECT 100MF	20% 35V	C1202	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C553	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V	C1204	1-104-665-11	ELECT 100MF	20% 16V
C554	1-102-244-00	CERAMIC 220PF	10% 500V	C1205	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C555	1-101-804-00	CERAMIC 10PF	5% 500V	C1210	1-104-665-11	ELECT 100MF	20% 16V
C562	1-104-665-11	ELECT 100MF	20% 16V	C1213	1-124-903-11	ELECT 1MF	20% 50V
601	1-162-318-11	CERAMIC 0.001MF	10% 500V	C1214	1-124-907-11	ELECT 10MF	20% 50V
C602	1-161-830-00	CERAMIC 0.0047MF	99% 500V	C1217	1-104-665-11	ELECT 100MF	20% 16V
C604	1-125-483-11	ELECT(BLOCK) 470MF	20% 400V	C1218	1-163-123-00	CERAMIC CHIP 180PF	5% 50V
C608	1-104-332-11	CERAMIC 470PF	10% 2KV	C1221	1-164-005-11	CERAMIC CHIP 0.47MF	25V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R021	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R266	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R027	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R301	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R028	1-216-025-00	METAL GLAZE	100 5% 1/10W	R302	1-216-035-00	METAL GLAZE	270 5% 1/10W
R029	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R303	1-216-025-00	METAL GLAZE	100 5% 1/10W
R030	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R304	1-216-025-00	METAL GLAZE	100 5% 1/10W
R031	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R305	1-216-025-00	METAL GLAZE	100 5% 1/10W
R033	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R306	1-216-025-00	METAL GLAZE	100 5% 1/10W
R035	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R307	1-216-025-00	METAL GLAZE	100 5% 1/10W
R036	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R308	1-216-033-00	METAL GLAZE	220 5% 1/10W
R038	1-216-033-00	METAL GLAZE	220 5% 1/10W	R309	1-216-033-00	METAL GLAZE	220 5% 1/10W
R040	1-216-033-00	METAL GLAZE	220 5% 1/10W	R310	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R041	1-216-025-00	METAL GLAZE	100 5% 1/10W	R311	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R042	1-216-039-00	METAL GLAZE	390 5% 1/10W	R312	1-216-025-00	METAL GLAZE	100 5% 1/10W
R043	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R313	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R044	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R314	1-216-025-00	METAL GLAZE	100 5% 1/10W
R046	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R315	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R047	1-216-025-00	METAL GLAZE	100 5% 1/10W	R316	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W (KV-G25M11)
R048	1-216-025-00	METAL GLAZE	100 5% 1/10W	R317	1-216-049-00	METAL GLAZE	1K 5% 1/10W (KV-G25M11)
R049	1-216-121-00	METAL GLAZE	1M 5% 1/10W	R318	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R050	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R319	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R051	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R320	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R052	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R321	1-216-689-11	METAL CHIP	39K 0.50% 1/10W
R054	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R322	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R057	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R324	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R059	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R327	1-216-025-00	METAL GLAZE	100 5% 1/10W (KV-G25M11)
R067	1-216-033-00	METAL GLAZE	220 5% 1/10W	R327	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M11)
R068	1-216-025-00	METAL GLAZE	100 5% 1/10W	R328	1-216-025-00	METAL GLAZE	100 5% 1/10W (KV-G25M11)
R071	1-216-037-00	METAL GLAZE	330 5% 1/10W	R328	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M11)
R076	1-216-025-00	METAL GLAZE	100 5% 1/10W	R329	1-216-025-00	METAL GLAZE	100 5% 1/10W (KV-G25M11)
R077	1-216-025-00	METAL GLAZE	100 5% 1/10W	R329	1-216-295-00	CONDUCTOR, CHIP (2012)	(KV-G25M11)
R090	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R330	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R101	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R332	1-216-033-00	METAL GLAZE	220 5% 1/10W
R102	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R334	1-216-041-00	METAL GLAZE	470 5% 1/10W (KV-G25M11)
R103	1-216-041-00	METAL GLAZE	470 5% 1/10W	R335	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R113	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R336	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R114	1-216-041-00	METAL GLAZE	470 5% 1/10W	R338	1-216-043-91	METAL GLAZE	560 5% 1/10W
R115	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R339	1-216-036-00	METAL GLAZE	300 5% 1/10W
R116	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R340	1-216-035-00	METAL GLAZE	270 5% 1/10W
R117	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R341	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R118	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R351	1-216-001-00	METAL GLAZE	10 5% 1/10W
R119	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	R355	1-216-001-00	METAL GLAZE	10 5% 1/10W
R120	1-216-109-00	METAL GLAZE	330K 5% 1/10W	R356	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R131	1-216-464-11	METAL OXIDE	18K 5% 2W	R403	1-216-021-00	METAL GLAZE	68 5% 1/10W
R180	1-216-033-00	METAL GLAZE	220 5% 1/10W	R406	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R181	1-216-033-00	METAL GLAZE	220 5% 1/10W	R407	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R182	1-216-033-00	METAL GLAZE	220 5% 1/10W	R408	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R242	1-216-043-91	METAL GLAZE	560 5% 1/10W	R409	1-216-025-00	METAL GLAZE	100 5% 1/10W
R243	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R410	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R244	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R411	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R245	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R412	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R250	1-216-295-00	CONDUCTOR, CHIP (2012)		R413	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R251	1-216-295-00	CONDUCTOR, CHIP (2012)					
R252	1-249-411-11	CARBON	330 5% 1/4W				
R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R254	1-249-389-11	CARBON	4.7 5% 1/4W				
R265	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W				

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and mark are critical for safety.
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC354	8-759-251-56	IC TDA8395T		Q208	8-729-901-01	TRANSISTOR DTC144EK	
IC401	8-759-800-65	IC LA7910		Q210	8-729-900-98	TRANSISTOR DTC143TK	
IC521	8-759-195-63	IC PQ09RE11		Q301	8-729-900-53	TRANSISTOR DTC114EK	
IC551	8-759-801-98	IC LA7830		Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6	(KV-G25M11)
IC601	8-749-010-84	IC STR-S6708		Q303	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
IC602	8-749-920-61	IC SE-135N		Q402	8-729-922-66	TRANSISTOR 2SC2410SN	
IC603	A 8-759-010-64	PHOTO COUPLED IC123E2		Q403	8-729-900-98	TRANSISTOR DTC143TK	
IC801	8-759-100-96	IC UPC4558G2		Q404	8-729-900-98	TRANSISTOR DTC143TK	
IC1210	8-759-100-96	IC UPC4558G2		Q405	8-729-216-22	TRANSISTOR 2SA1162-G	
			<JACK>	Q406	8-729-216-22	TRANSISTOR 2SA1162-G	
J251	1-770-785-11	JACK		Q407	8-729-216-22	TRANSISTOR 2SA1162-G	
J1201	1-770-660-11	JACK BLOCK, PIN 4P		Q408	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
J1202	1-695-238-11	JACK BLOCK, PIN 2P		Q409	8-729-216-22	TRANSISTOR 2SA1162-G	
			<CHIP CONDUCTOR>	Q410	8-729-216-22	TRANSISTOR 2SA1162-G	
JR102	1-216-295-00	CONDUCTOR, CHIP (2012)		Q411	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR103	1-216-295-00	CONDUCTOR, CHIP (2012) (KV-G25M11)		Q412	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
JR104	1-216-295-00	CONDUCTOR, CHIP (2012)		Q413	8-729-900-98	TRANSISTOR DTC143TK	
			<COIL>	Q414	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L002	1-410-470-11	INDUCTOR	10UH	Q415	8-729-900-98	TRANSISTOR DTC143TK	
L003	1-408-411-00	INDUCTOR	15UH	Q416	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L101	1-410-396-41	FERRITE BEAD	INDUCTOR 0.45UH	Q417	8-729-900-98	TRANSISTOR DTC143TK	
L301	1-408-609-41	INDUCTOR	33UH	Q418	8-729-900-98	TRANSISTOR DTC143TK	
L401	1-410-498-11	INDUCTOR	1.2UH	Q561	8-729-200-17	TRANSISTOR 2SA1091-0	
L402	1-410-510-11	INDUCTOR	12UH	Q601	8-729-120-28	TRANSISTOR 2SC2412K	
L403	1-410-510-11	INDUCTOR	12UH	Q801	8-729-140-96	TRANSISTOR 2SD774-34	
L404	1-410-508-11	INDUCTOR	8.2UH	Q802	8-729-016-32	TRANSISTOR 2SC4927-01	
L405	1-410-508-11	INDUCTOR	8.2UH	Q821	8-729-018-99	TRANSISTOR 2SD2394-F	
L406	1-410-507-11	INDUCTOR	6.8UH	Q902	8-729-901-01	TRANSISTOR DTC144EK	
L407	1-410-511-11	INDUCTOR	15UH	Q903	8-729-901-01	TRANSISTOR DTC144EK	
L408	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q1201	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L409	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q1202	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L410	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q1203	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L411	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q1204	8-729-216-22	TRANSISTOR 2SA1162-G	
L802	1-412-527-11	INDUCTOR	15UH	Q1207	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L804	1-459-075-00	COIL, DYNAMIC CONVERSION CHOKE		Q1208	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L805	1-459-907-11	COIL, HORIZONTAL LINEARITY		Q1265	8-729-900-98	TRANSISTOR DTC143TK	
L807	1-459-390-00	COIL (WITH CORE)		Q1513	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L808	1-412-553-11	INDUCTOR	3.3MMH				<RESISTOR>
L821	1-459-111-00	COIL, DRAM CORE (CDI)		R001	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
L850	1-408-947-00	INDUCTOR	2.2MMH	R002	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
				R003	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
				R004	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
				R007	1-216-073-00	METAL GLAZE 10K	5% 1/10W
				R008	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R009	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R010	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R012	1-216-017-00	METAL GLAZE 47	5% 1/10W
				R013	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R014	1-216-049-00	METAL GLAZE 1K	5% 1/10W
				R015	1-216-043-91	METAL GLAZE 560	5% 1/10W
				R018	1-216-033-00	METAL GLAZE 220	5% 1/10W
				R019	1-216-101-00	METAL GLAZE 150K	5% 1/10W
				R020	1-216-025-00	METAL GLAZE 100	5% 1/10W
							(KV-G25M11)

KV-G25M1/G25M11

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A **C**

The components identified by shading and mark **△** are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R910	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		<TRANSFORMER>
R911	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W		
R913	1-216-041-00	METAL GLAZE	470	5%	1/10W		
R914	1-216-041-00	METAL GLAZE	470	5%	1/10W		
R915	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W		
R1201	1-216-023-00	METAL GLAZE	82	5%	1/10W		
R1202	1-216-049-00	METAL GLAZE	1K	5%	1/10W		
R1203	1-216-089-00	METAL GLAZE	47K	5%	1/10W		
R1205	1-216-023-00	METAL GLAZE	82	5%	1/10W		
R1206	1-216-089-00	METAL GLAZE	47K	5%	1/10W		
R1211	1-216-021-00	METAL GLAZE	68	5%	1/10W		
R1212	1-216-049-00	METAL GLAZE	1K	5%	1/10W		
R1215	1-216-113-00	METAL GLAZE	470K	5%	1/10W		
R1216	1-216-113-00	METAL GLAZE	470K	5%	1/10W		
R1218	1-216-041-00	METAL GLAZE	470	5%	1/10W		
R1219	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R1220	1-216-049-00	METAL GLAZE	1K	5%	1/10W		
R1221	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R1227	1-216-689-11	METAL GLAZE	39K	5%	1/10W		
R1228	1-216-049-00	METAL GLAZE	1K	5%	1/10W		
R1229	1-216-041-00	METAL GLAZE	470	5%	1/10W		
R1230	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R1231	1-216-049-00	METAL GLAZE	1K	5%	1/10W		
R1232	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W		
R1233	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W		
R1235	1-216-689-11	METAL GLAZE	39K	5%	1/10W		
R1239	1-249-389-11	CARBON	4.7	5%	1/4W	F	
R1240	1-216-025-00	METAL GLAZE	100	5%	1/10W		
R1241	1-216-049-00	METAL GLAZE	1K	5%	1/10W		
R1243	1-216-025-00	METAL GLAZE	100	5%	1/10W		
R1245	1-216-037-00	METAL GLAZE	330	5%	1/10W		
R1246	1-216-037-00	METAL GLAZE	330	5%	1/10W		
R1247	1-216-041-00	METAL GLAZE	470	5%	1/10W		
R1248	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W		
R1249	1-216-041-00	METAL GLAZE	470	5%	1/10W		
R1513	1-216-073-00	METAL GLAZE	10K	5%	1/10W		
R1514	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		
R1515	1-216-025-00	METAL GLAZE	100	5%	1/10W		
<SWITCH>							
S601	△1-762-087-11	SWITCH, PUSH (AC POWER)					
S801	1-572-707-11	SWITCH, LEVER					
S901	1-570-577-11	SWITCH, PUSH					
S902	1-570-577-11	SWITCH, PUSH					
S903	1-570-577-11	SWITCH, PUSH					
S904	1-570-577-11	SWITCH, PUSH					
S905	1-570-577-11	SWITCH, PUSH					
<SPARK GAP>							
SG801	1-519-422-11	GAP, SPARK					
<FILTER>							
SWF401	1-760-771-11	FILTER, SURFACE WAVE					
<CONNECTOR>							
CN701	* 1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P					
CN703	* 1-564-509-11	PLUG, CONNECTOR 6P					
CN704	1-695-915-11	TAB (CONTACT)					
<DIODE>							
D701	8-719-911-19	DIODE 1SS119-25					
D702	8-719-911-19	DIODE 1SS119-25					
D703	8-719-911-19	DIODE 1SS119-25					
D704	8-719-911-19	DIODE 1SS119-25					
D705	8-719-911-19	DIODE 1SS119-25					
D706	8-719-911-19	DIODE 1SS119-25					
D707	8-719-911-19	DIODE 1SS119-25					
D708	8-719-911-19	DIODE 1SS119-25					
D709	8-719-911-19	DIODE 1SS119-25					
D710	8-719-911-19	DIODE 1SS119-25					

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The components identified by shading
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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK					
R414	1-216-041-00	METAL GLAZE	470	5%	1/10W	R617	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R415	1-216-033-00	METAL GLAZE	220	5%	1/10W	R619	1-249-377-11	CARBON	0.47	5%	1/4W	F
R416	1-216-033-00	METAL GLAZE	220	5%	1/10W	R621	1-211-748-11	FUSIBLE	5.6	5%	5W	F
R417	1-216-033-00	METAL GLAZE	220	5%	1/10W	R622	1-217-190-21	WIREWOUND	0.15	10%	2W	F
R418	1-216-045-00	METAL GLAZE	680	5%	1/10W	R623	1-247-807-31	CARBON	100	5%	1/4W	
R419	1-216-049-00	METAL GLAZE	1K	5	1/10W	R624	1-215-881-11	METAL OXIDE	15	5%	2W	F
R420	1-216-039-00	METAL GLAZE	390	5%	1/10W	R625	1-249-424-11	CARBON	3.9K	5%	1/4W	
R421	1-216-033-00	METAL GLAZE	220	5%	1/10W	R626	1-249-420-11	CARBON	1.8K	5%	1/4W	
R422	1-216-027-00	METAL GLAZE	120	5%	1/10W	R627	1-249-417-11	CARBON	1K	5%	1/4W	
R423	1-216-029-00	METAL GLAZE	150	5%	1/10W	R628	1-249-417-11	CARBON	1K	5%	1/4W	
R424	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R629	1-249-401-11	CARBON	47	5%	1/4W	
R425	1-216-039-00	METAL GLAZE	390	5%	1/10W	R635	1-215-882-00	METAL OXIDE	22	5%	2W	F
R426	1-216-029-00	METAL GLAZE	150	5%	1/10W				(KV-G25M11)			
R427	1-216-037-00	METAL GLAZE	330	5%	1/10W	R636	1-215-924-00	METAL OXIDE	15K	5%	3W	F
R428	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R801	1-215-920-11	METAL OXIDE	3.3K	5%	3W	F
R429	1-216-039-00	METAL GLAZE	390	5%	1/10W	R802	1-249-387-11	CARBON	3.3	5%	1/4W	F
R430	1-216-041-00	METAL GLAZE	470	5%	1/10W	R804	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R431	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R805	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R432	1-216-041-00	METAL GLAZE	470	5%	1/10W	R808	1-535-303-00	LEAD, JUMPER	(5.0MM)			
R433	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R809	1-247-756-11	CARBON	2.2K	5%	1/2W	F
R434	1-216-041-00	METAL GLAZE	470	5%	1/10W	R811	1-216-346-00	METAL OXIDE	0.56	5%	1W	F
R435	1-216-041-00	METAL GLAZE	470	5%	1/10W	R812	1-216-075-00	METAL GLAZE	12K	5%	1/10W	
R436	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R816	1-249-430-11	CARBON	12K	5%	1/4W	
R437	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R820	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R440	1-216-029-00	METAL GLAZE	150	5%	1/10W	R821	1-215-910-00	METAL OXIDE	68	5%	3W	F
R441	1-216-021-00	METAL GLAZE	68	5%	1/10W	R822	1-216-429-00	METAL OXIDE	270	5%	1W	F
R521	1-216-049-00	METAL GLAZE	1K	5%	1/10W	R823	1-247-756-11	CARBON	2.2K	5%	1/2W	F
R552	1-216-105-91	METAL GLAZE	220K	5%	1/10W	R825	1-249-392-11	CARBON	8.2	5%	1/4W	
						R826	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
						R827	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
						R828	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R553	1-216-295-00	CONDUCTOR, CHIP (2012)				R829	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)				R831	1-216-426-11	METAL OXIDE	82	5%	1W	F
R555	1-249-429-11	CARBON	10K	5%	1/4W	R832	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R556	1-216-049-00	METAL GLAZE	1K	5	1/10W	R834	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R557	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	R851	1-249-382-11	CARBON	1.2	5%	1/4W	F
R560	1-216-295-00	CONDUCTOR, CHIP (2012)				R852	1-249-923-11	CARBON	1K	5%	1/4W	F
R561	1-249-421-11	CARBON	2.2K	5%	1/4W	R853	1-249-377-11	CARBON	0.47	5%	1/4W	F
R562	1-249-420-11	CARBON	1.8K	5%	1/4W	R854	1-249-377-11	CARBON	0.47	5%	1/4W	F
R563	1-247-885-00	CARBON	180K	5%	1/4W	R855	1-202-818-00	SOLID	1K	20%	1/2W	
R564	1-216-091-00	METAL GLAZE	56K	5%	1/10W	R856	1-249-425-11	CARBON	4.7K	5%	1/4W	
R565	1-216-091-00	METAL GLAZE	56K	5%	1/10W	R857	1-249-438-11	CARBON	56K	5%	1/4W	
R566	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R858	1-216-370-11	METAL OXIDE	1.2	5%	2W	FZ
R569	1-247-883-00	CARBON	150K	5%	1/4W	R860	1-247-887-00	CARBON	220K	5%	1/4W	
R570	1-216-295-00	CONDUCTOR, CHIP (2012)				R881	1-216-043-91	METAL GLAZE	560	5%	1/10W	
		(KV-G25M1 (RUSS)/(HK), KV-G25M11)				R882	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R603	1-249-416-11	CARBON	820	5%	1/4W	R883	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R604	1-249-416-11	CARBON	820	5%	1/4W	R895	1-216-348-00	METAL OXIDE	0.82	5%	1W	F
R606	1-215-915-11	METAL OXIDE	470	5%	3W	R898	1-249-421-11	CARBON	2.2K	5%	1/4W	
R608	1-535-303-00	LEAD, JUMPER	(5.0MM)			R902	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R609	1-249-381-11	CARBON	1	5%	1/4W	R904	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R610	1-215-924-00	METAL OXIDE	15K	5%	3W	R905	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R611	1-202-933-61	FUSIBLE	0.1	10%	1/2W	R906	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R612	1-249-377-11	CARBON	0.47	5%	1/4W	R907	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R613	1-249-377-11	CARBON	0.47	5%	1/4W	R908	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R614	1-215-877-11	METAL OXIDE	22K	5%	1W	R909	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R615	1-249-389-11	CARBON	4.7	5%	1/4W							
R616	A 1-218-265-91	METAL	8.2M	5%	1W							

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F1 **V1**

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK					
<TRANSFORMER>												
T1601	1-124-436-11	TRANSFORMER LINE FILTER		IC01	8-759-324-28	IC P83C654						
T1602	1-124-436-11	TRANSFORMER LINE FILTER		IC02	8-759-298-63	IC SAA5281ZP/E						

* A-1347-103-A V1 BOARD, COMPLETE (KV-G25M11)												
<CAPACITOR>												
C01	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	JR02	1-216-295-00	CONDUCTOR, CHIP (2012)					
C02	1-124-907-11	ELECT 10MF	20%	50V	JR03	1-216-295-00	CONDUCTOR, CHIP (2012)					
C03	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V	JR04	1-216-295-00	CONDUCTOR, CHIP (2012)					
C04	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	JR07	1-216-295-00	CONDUCTOR, CHIP (2012)					
C05	1-124-907-11	ELECT 10MF	20%	50V	JR08	1-216-295-00	CONDUCTOR, CHIP (2012)					
C06	1-163-227-11	CERAMIC CHIP 10PF	0.5PF	50V	<COIL>							
C07	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	L01	1-410-464-11	INDUCTOR 3.3UH					
C08	1-163-097-00	CERAMIC CHIP 15PF	5%	50	L03	1-410-464-11	INDUCTOR 3.3UH					
C09	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	L04	1-410-464-11	INDUCTOR 3.3UH					
C10	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	L05	1-410-464-11	INDUCTOR 3.3UH					
C11	1-164-346-11	CERAMIC CHIP 1MF	16V	L06	1-410-464-11	INDUCTOR 3.3UH						
C12	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	<TRANSISTOR>							
C13	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	Q01	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
C14	1-216-295-00	CONDUCTOR, CHIP (2012)		Q02	8-729-900-53	TRANSISTOR DTC114EK						
C15	1-124-482-11	ELECT 33MF	20%	35V	Q03	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
C16	1-126-963-11	ELECT 4.7MF	20%	50V	Q04	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
C17	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	Q05	8-729-216-22	TRANSISTOR 2SA1162-G					
C19	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	Q06	8-729-120-28	TRANSISTOR 2SC1623-L5L6					
C22	1-124-907-11	ELECT 10MF	20%	50V	Q07	8-729-019-01	TRANSISTOR 2SD2394-EF					
C23	1-163-038-00	CERAMIC CHIP 0.1MF	25V	Q08	8-729-140-96	TRANSISTOR 2SD774-34						
C25	1-124-907-11	ELECT 10MF	20%	50V	Q09	8-729-901-04	TRANSISTOR DTA114EK					
C26	1-124-119-00	ELECT 330MF	20%	16V	<RESISTOR>							
C27	1-104-665-11	ELECT 100MF	20%	16V	R01	1-216-061-00	METAL GLAZE 3.3K					
C28	1-163-099-00	CERAMIC CHIP 18PF	5%	50V	R02	1-216-057-00	METAL GLAZE 2.2K					
C29	1-163-099-00	CERAMIC CHIP 18PF	5%	50V	R03	1-216-085-00	METAL GLAZE 33K					
C30	1-163-099-00	CERAMIC CHIP 18PF	5%	50V	R04	1-216-025-00	METAL GLAZE 100					
C31	1-163-099-00	CERAMIC CHIP 18PF	5%	50V	R05	1-216-057-00	METAL GLAZE 2.2K					
<CONNECTOR>												
CN01	*1-770-748-11	CONNECTOR, BOARD TO BOARD 12P		R06	1-216-075-00	METAL GLAZE 12K						
<DIODE>				R07	1-216-025-00	METAL GLAZE 100						
D001	8-719-105-51	DIODE RD3.6M-B1		R08	1-216-025-00	METAL GLAZE 100						
D03	8-719-914-43	DIODE DAN202K		R09	1-216-057-00	METAL GLAZE 2.2K						
D04	8-719-105-91	DIODE RD5.6M-B2		R10	1-216-083-00	METAL GLAZE 27K						
D05	8-719-914-44	DIODE DAP202K		<DIODE>								
D06	8-719-914-43	DIODE DAN202K		R11	1-216-069-00	METAL GLAZE 6.8K						
<FERRITE BEAD>				R12	1-216-057-00	METAL GLAZE 2.2K						
FB01	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH		R13	1-216-061-00	METAL GLAZE 3.3K						
<CONNECTOR>				R16	1-216-073-00	METAL GLAZE 10K						
<RESISTOR>				R17	1-216-065-00	METAL GLAZE 4.7K						
<TRANSISTOR>				R18	1-216-059-00	METAL GLAZE 2.7K						
<CONNECTOR>				R19	1-216-049-00	METAL GLAZE 1K						
<RESISTOR>				R20	1-216-049-00	METAL GLAZE 1K						
<TRANSISTOR>				R21	1-216-065-00	METAL GLAZE 4.7K						
<CONNECTOR>				R22	1-216-041-00	METAL GLAZE 470						
<RESISTOR>				R24	1-216-025-00	METAL GLAZE 100						
<TRANSISTOR>				R25	1-216-025-00	METAL GLAZE 100						
<RESISTOR>				R26	1-216-049-00	METAL GLAZE 1K						

The components identified by shading and mark are critical for safety. Replace only with part number specified.

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The components identified by shading
and mark are critical for safety.
Replace only with part number specified.

V1

<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>	<u>REF. NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REMARK</u>
R27	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W		
R28	1-216-025-00	METAL GLAZE	100	5%	1/10W		REMOTE COMMANDER *****
R29	1-216-025-00	METAL GLAZE	100	5%	1/10W		1-473-323-11 REMOTE COMMANDER (RM-870)
R30	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W		
R31	1-216-025-00	METAL GLAZE	100	5%	1/10W		
R32	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W		
R33	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		
R34	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		
R35	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W		
R36	1-216-025-00	METAL GLAZE	100	5%	1/10W		
R37	1-216-049-00	METAL GLAZE	1K	5%	1/10W		
R38	1-260-085-11	CARBON	68	5%	1/2W		
R41	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W		
R43	1-216-295-00	CONDUCTOR, CHIP	(2012)				
R44	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W		
R45	1-216-021-00	METAL GLAZE	68	5%	1/10W		
R46	1-216-021-00	METAL GLAZE	68	5%	1/10W		
R47	1-216-021-00	METAL GLAZE	68	5%	1/10W		

<CRYSTAL>

X01	1-579-266-31 CRYSTAL VIBRATOR
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MISCELLANEOUS

1-544-453-21 SPEAKER (2CM)
1-504-305-11 SPEAKER (5X12CM)

A3-733-224-05 PICTURE FRAME (KV-G25M1)
A3-731-104-11 BAG PROTECTION (KV-G25M1)
A3-733-014-11 CARRYING CASE (KV-G25M1)
A3-733-012-11 CARRYING CASE (KV-G25M1)

ACCESSORIES AND PACKING MATERIALS

3-800-141-21 MANUAL, INSTRUCTION (KV-G25M1(ME))
3-800-141-41 MANUAL, INSTRUCTION (KV-G25M1(HK)/M11)
3-800-141-51 MANUAL, INSTRUCTION (KV-G25M1(RUSS))
* 4-029-168-01 BAG, PROTECTION (KV-G25M1)
* 4-039-372-01 BAG, PROTECTION (KV-G25M1)
3-701-910-00 SCREW, SPECIAL (DIA. 3.8X20)
4-392-003-11 BAND, HOLD
4-392-004-11 CLIP

A3-733-008-11 ADAPTER, CONVERSION (KV-G25M1)
(KV-G25M1(ME)/KV-G25M1(RUSS))

* 4-047-806-01 CUSHION (UPPER) (ASSY) (KV-G25M1)
* 4-047-807-01 CUSHION (LOWER) (ASSY) (KV-G25M1)
* 4-047-808-01 INDIVIDUAL CARTON (KV-G25M1)